MANITOBA VITAL STATISTICS

AN HISTORICAL REVIEW 1984-88

MBS 89-5

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Manitoba
Bureau of
Statistics

HISTORICAL OVERVIEW

LIVE BIRTHS

There were 17,115 live births in Manitoba during 1984. The number of births increased to a high of 17,524 in 1986 and back down to a low of 17,000 in 1988. Over this 5 year time period male births have outnumbered female births by an average of 424 births annually. Winnipeg's portion of Manitoba births has risen from 64.7% in 1984 to 68.7% in 1988.

Winnipeg's 5 year average number of live births is 11,562. The Interlake and Southeast areas have registered the fewest number of births during the five year period: the average being near 385 for the Interlake and 406 for the Southeast. These two regions were followed by the North Central region with an average of 525 births, the Parklands with 643 births and the South Central with 648 births. The only two regions besides Winnipeg to record averages greater than one thousand births were the North and the Southwest with 1,728 and 1,423 births respectively.

The birth rates for Manitoba have hovered around the 16 live births per 1,000 population, reaching a high of 16.4 in 1985 to a low of 15.7 in 1988. Birth rates of males have consistently been higher than female birth rates by at least one point at the provincial level. The regions with the highest birth rates have consistently been Winnipeg and the North. The lowest birth rates have been recorded in the Southeast and Interlake regions.

DEATHS

The number of deaths in Manitoba went from a low of 8,312 in 1984 to a high of 9,051 in 1988. During this five year period male deaths outnumbered female deaths by an annual average of 920 deaths. Winnipeg's proportion of Manitoba deaths has stayed fairly constant during this period at 60.0% to 60.4%.

The North recorded an annual average of 318 deaths during the five year period. This was followed by the North Central with an average of 321 deaths, Southeast with an average of 373 deaths and the South Central with 384 deaths. The Interlake accounted for an average of 463 deaths and the Parklands accounted for 538 deaths. Only the Southwest and Winnipeg had five year averages greater than 1,000 deaths at 1,098 and 5,302 respectively. Manitoba had a five year average of 8,797 deaths.

The North and the Southeast regions have consistently registered the lowest death rates from 1984 to 1988: the North rates ranged between 3.8 and 4.6 and the Southeast rates ranged from 4.6 to 5.4 deaths per thousand people. These regions were followed by the Interlake, North Central and South Central regions with average death rates of 6.6, 6.9 and 7.7. Winnipeg consistently ranked sixth with an average rate of 8.9, followed by the Southwest and Parklands regions with average rates of 10.0 and 10.3. The average death rate for Manitoba was 8.2 deaths per thousand people.

INFANT DEATHS AND STILLBIRTHS

The number of infant deaths in Manitoba ranged from 184 in 1985 to a low of 136 in 1988. Winnipeg's proportion of infant deaths averaged 78.1% during this five year period. The number of male infant deaths averaged 89 while female infant deaths averaged 68 during the five year period.

The Parklands, Southwest and North Central regions had the lowest average infant death rates of 3.5, 4.4 and 4.5 per thousand live births during the five year period. The Interlake, North and Winnipeg regions had the highest average infant death rates of 8.0,8.8 and 10.6 respectively. The average infant death rate for Manitoba was 9.1.

The number of stillbirths ranged from 128 in 1984 to a low of 101 in 1988. Winnipeg's proportion of stillbirths averaged 67.9% during the five year period. The number of male stillbirths averaged 62 and the number of female stillbirths averaged 53 during this time period.

The Southeast region had the lowest stillbirth rate of 2.0 during the five year period. The South Central, North Central and Interlake regions followed with average stillbirth rates of 5.3, 6.0 and 6.2. Winnipeg, Parklands and the North had the highest average rates of 6.8, 7.2 and 7.4 respectively.

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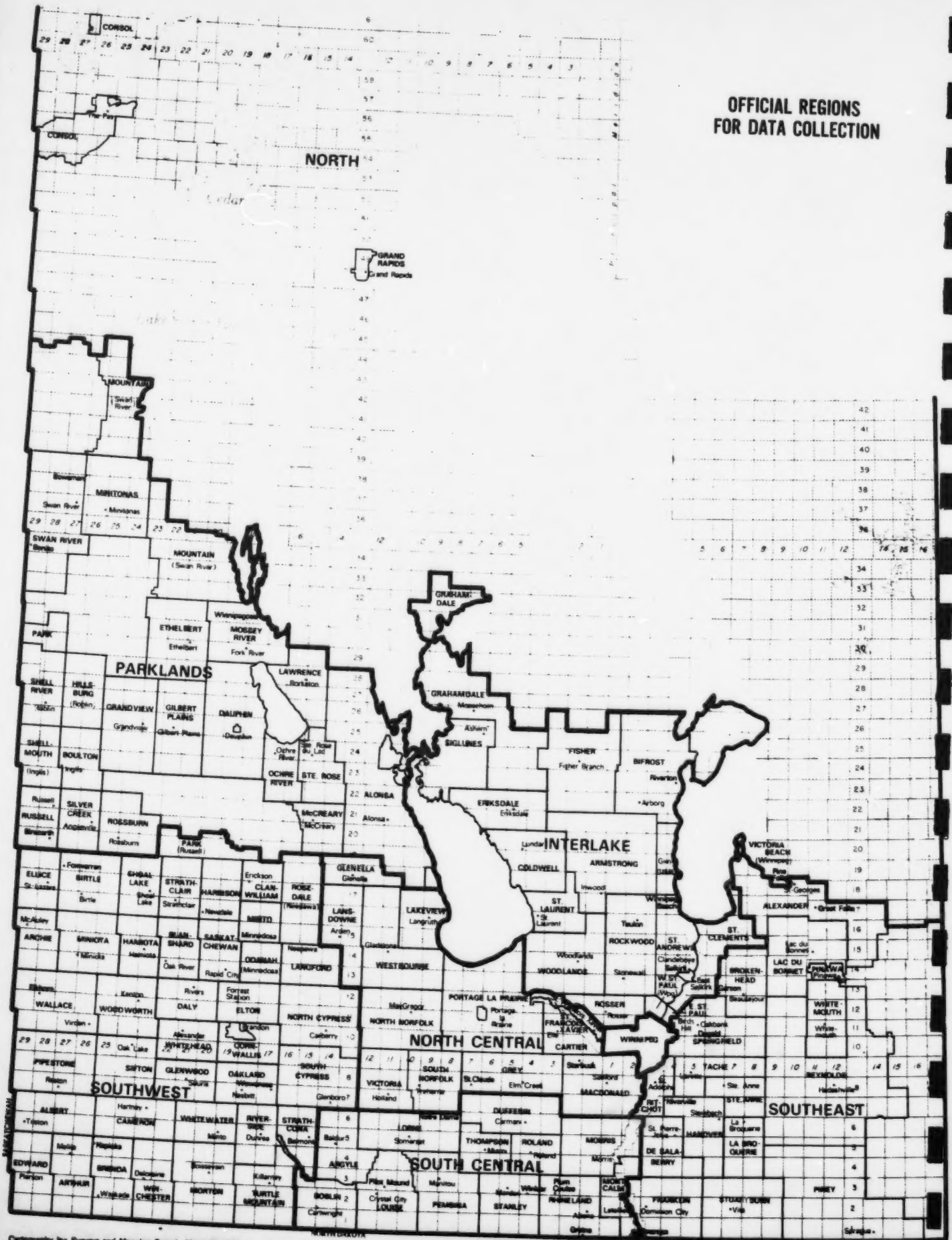
OFFICIAL REGIONS
FOR DATA COLLECTION
NORTH
SOUTHWEST
PARKLANDS
NORTH CENTRAL
INTERLAKE
SOUTHEAST
SOUTH CENTRAL
CONSOL
GRAND RAPIDS
MOUNTAIN
MINITONAS
SWAN RIVER
GRAHAM DALE
GRAHAMDALE
ETHELBERT
MOSSEY RIVER
LAWRENCE
SHELL RIVER
HILLSBURG
GRANDVIEW
GILBERT PLAINS
DAUPHIN
SHELLMOUTH
BOULTON
OCHRE RIVER
STE. ROSE
ALONSA
SILVER CREEK
ROSSBURN
RUSSELL
McCREARY
PARK
SIGLUNES
ERIKSDALE
FISHER
BIFROST
ELLICE
BIRTLE
GLOBAL LAKE
STRATHCLAIR
HARRISON
CLAN-WILLIAM
ROSEDALE
GLENELLA
LANSDOWNE
LAKEVIEW
ARCHIE
MINIOTA
HAMIOTA
BRANDON
SASKATCHEWAN
MINTO
LANGFORD
WESTBOURNE
COLDWELL
ARMSTRONG
LUNDAR
ST. LAURENT
ROCKWOOD
WOODLANDS
WOODWORTH
DALY
ELTON
NORTH CYPRESS
MacGregor
NORTH NORFOLK
PORTAGE LA PRAIRIE
ROSSER
WINNIPEG
CARTIER
ST. ANDREWS
ST. CLEMENTS
ST. PAUL
WEST ST. PAUL
BROKEN-HEAD
LAC DU BONNET
ALEXANDER
VICTORIA BEACH
PINAWA
WHITE-MOUTH
REYNOLDS
WALLACE
PIPESTONE
SIFTON
GLENWOOD
OAKLAND
CORNWALLIS
SOUTH CYPRESS
VICTORIA
SOUTH NORFOLK
GREY
MACDONALD
TACHE
ST. ANNE
ST. LAURENT
ALBERT
CAMERON
WHITEWATER
RIVERSIDE
STRATHCONA
LORNE
DUFFERIN
THOMPSON
ROLAND
MORRIS
HANOVER
LA BROQUERIE
DE SALABERRY
EDWARD
BRENDA
ARGYLE
SOUTH CENTRAL
ARTHUR
WINCHESTER
NORTON
TURTLE MOUNTAIN
BOBLIN
LOUISE
PEMBINA
STANLEY
RHINELAND
MORDEN
FRANKLIN
STUARTBURN
PRIEY
Cartography by: Surveys and Mapping Branch, Manitoba-1984
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MAN 124

INTRODUCTION

This report presents data on the vital statistics (births, deaths, infant deaths and stillbirths) occurring in the province of Manitoba for the period 1984 to 1988. Annual data from 1984 on can be found in the Manitoba Bureau of Statistics reports **"MANITOBA VITAL STATISTICS: A REGIONAL ANALYSIS"**. The charts and tables in this report were constructed using data that was reported by the Office of Vital Statistics, Manitoba Family Services.

This data refers to events that occurred in Manitoba and involved Manitobans by place of occurrence. Where all characteristics of an event have not been recorded, the vital event has been omitted from that statistical table.

The population figures used are from the Statistics Canada annual estimates of population, rounded to the nearest hundred. Where population estimates were not available, population projections from the Manitoba Bureau of Statistics have been used to derive the approximate distribution of the population by sex. The Statistics Canada estimate was then broken down according to this distribution.

Manitoba is divided into 8 Official Regions for Data Collection (also known as Economic Regions). The following table illustrates the association between data collection region, economic region, and census division.

OFFICIAL REGION FOR DATA COLLECTION	ECONOMIC REGION	CENSUS DIVISION
Southeast	60	1, 2, 12
South Central	61	3, 4
Southwest	62	5, 6, 7, 15
North Central	63	8, 9, 10
Winnipeg	64	11
Interlake	65	13, 14, 18
Parklands	66	16, 17, 20
North	67	19, 21, 22, 23

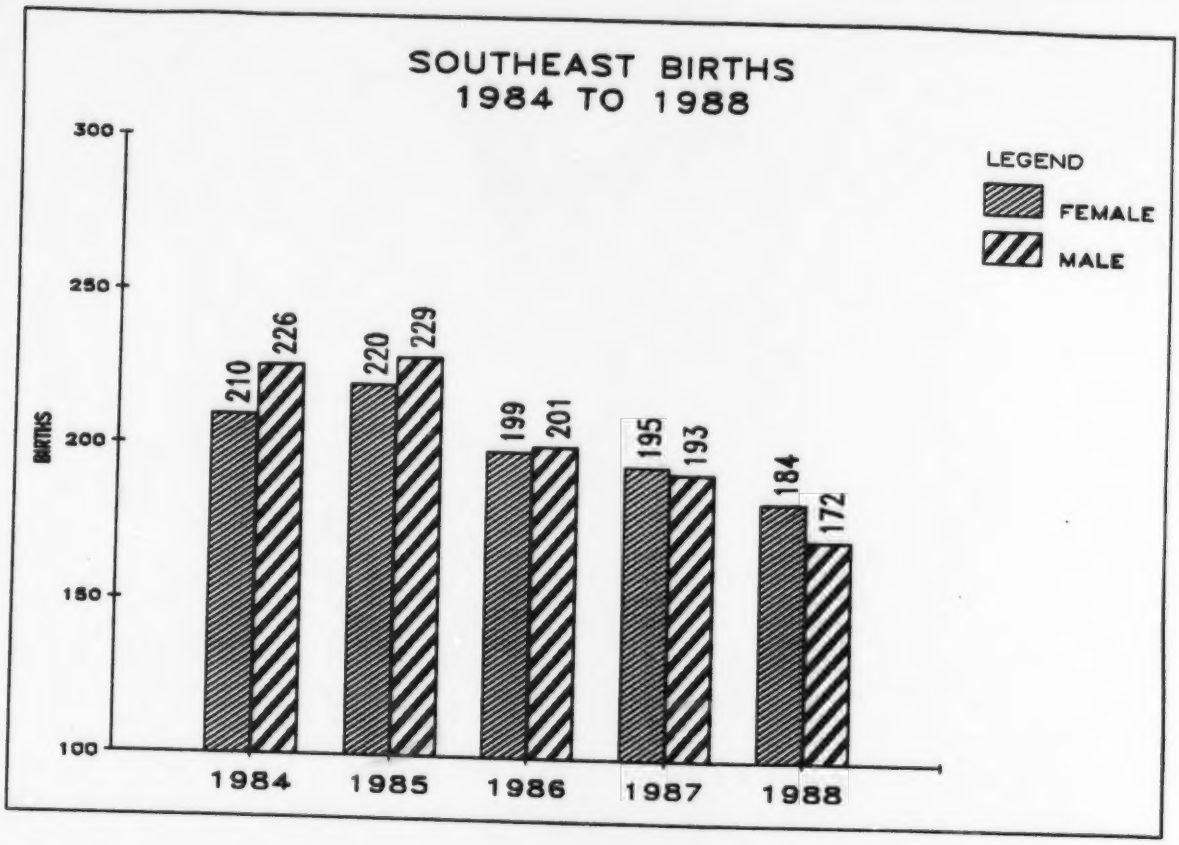
The map on the opposite page also illustrates these relationships.

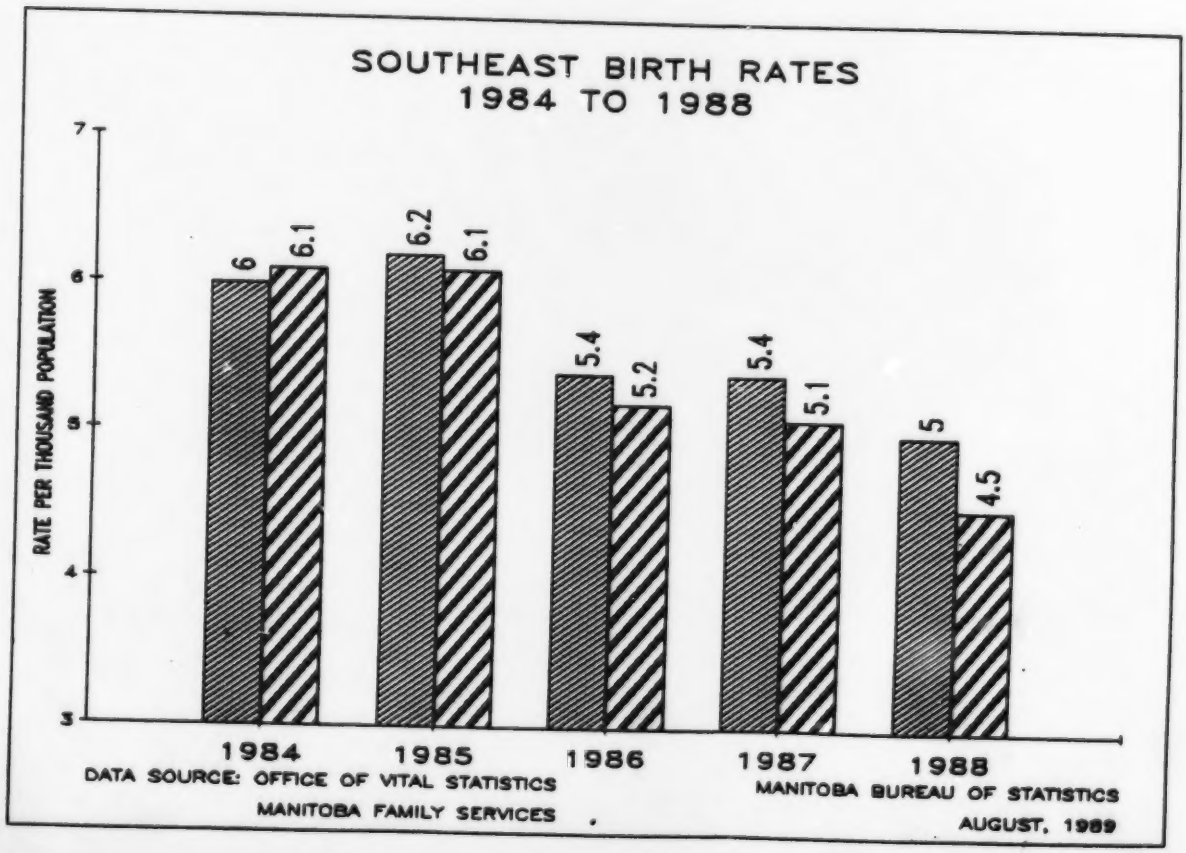
Further information and custom tabulations on the 1984 to 1988 vital statistics can be obtained from the Manitoba Bureau of Statistics by contacting David Greenwood at (204) 945-2989.

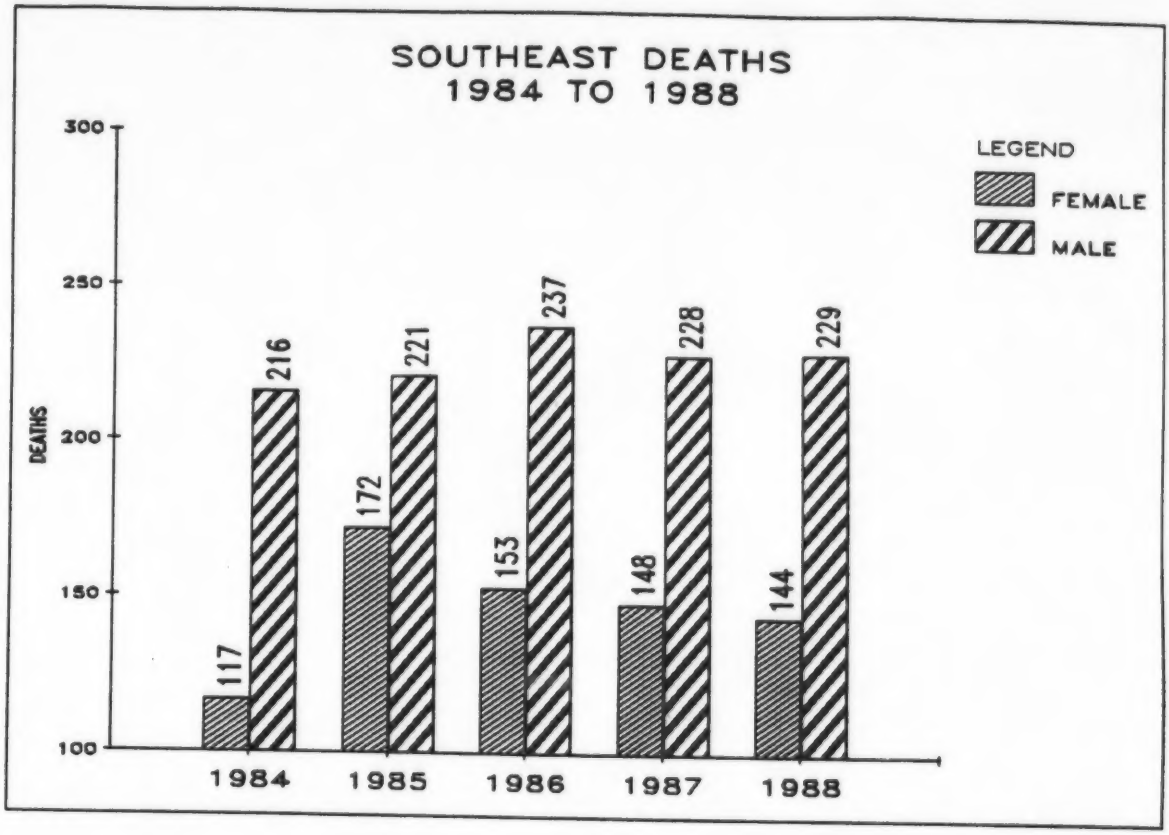
THE

SOUTHEAST

REGION


SOUTHEAST BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
300
250
200
150
100
210
226
220
229
199
201
195
193
184
172
1984
1985
1986
1987
1988


SOUTHEAST BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
7
6
5
4
3
6
6.1
6.2
6.1
5.4
5.2
5.4
5.1
5
4.5
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


SOUTHEAST DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
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100
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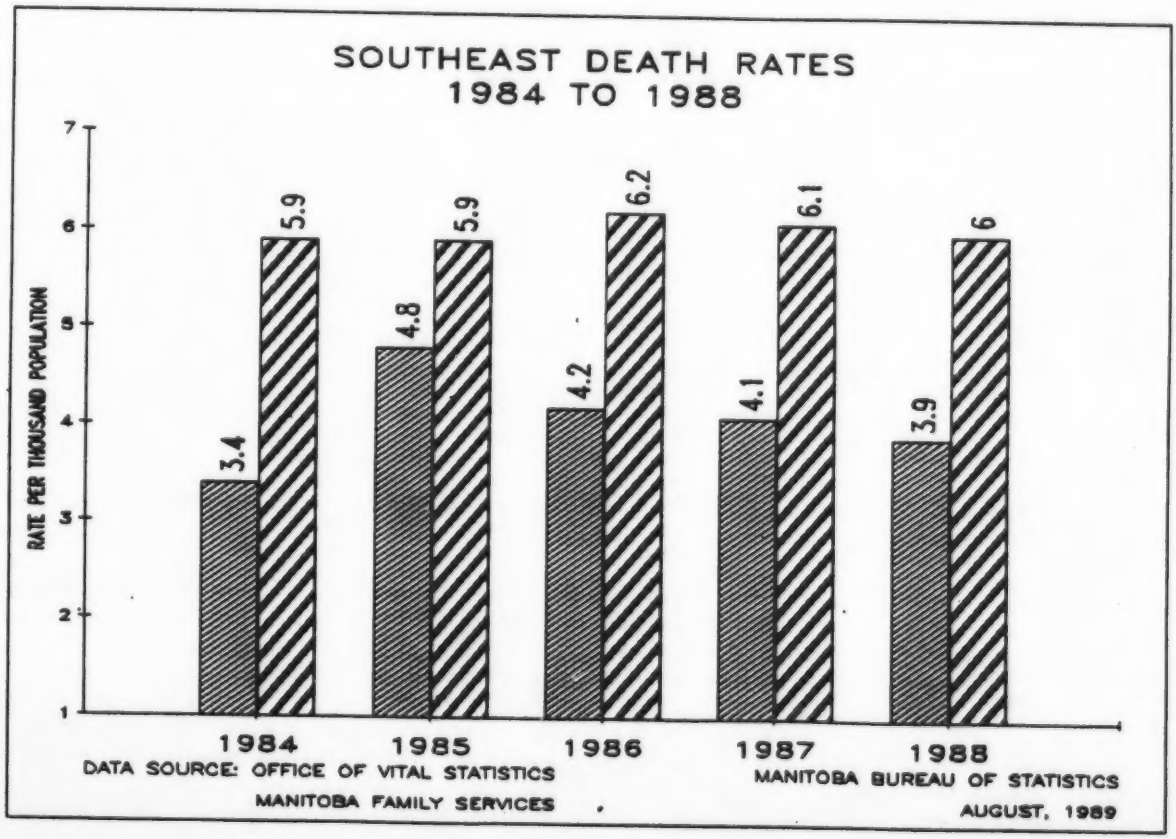
153
237
148
228
144
229
1984
1985
1986
1987
1988


SOUTHEAST DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
7
6
5
4
3
2
1
3.4
5.9
4.8
5.9
4.2
6.2
4.1
6.1
3.9
6
1984
1985
1986
1987
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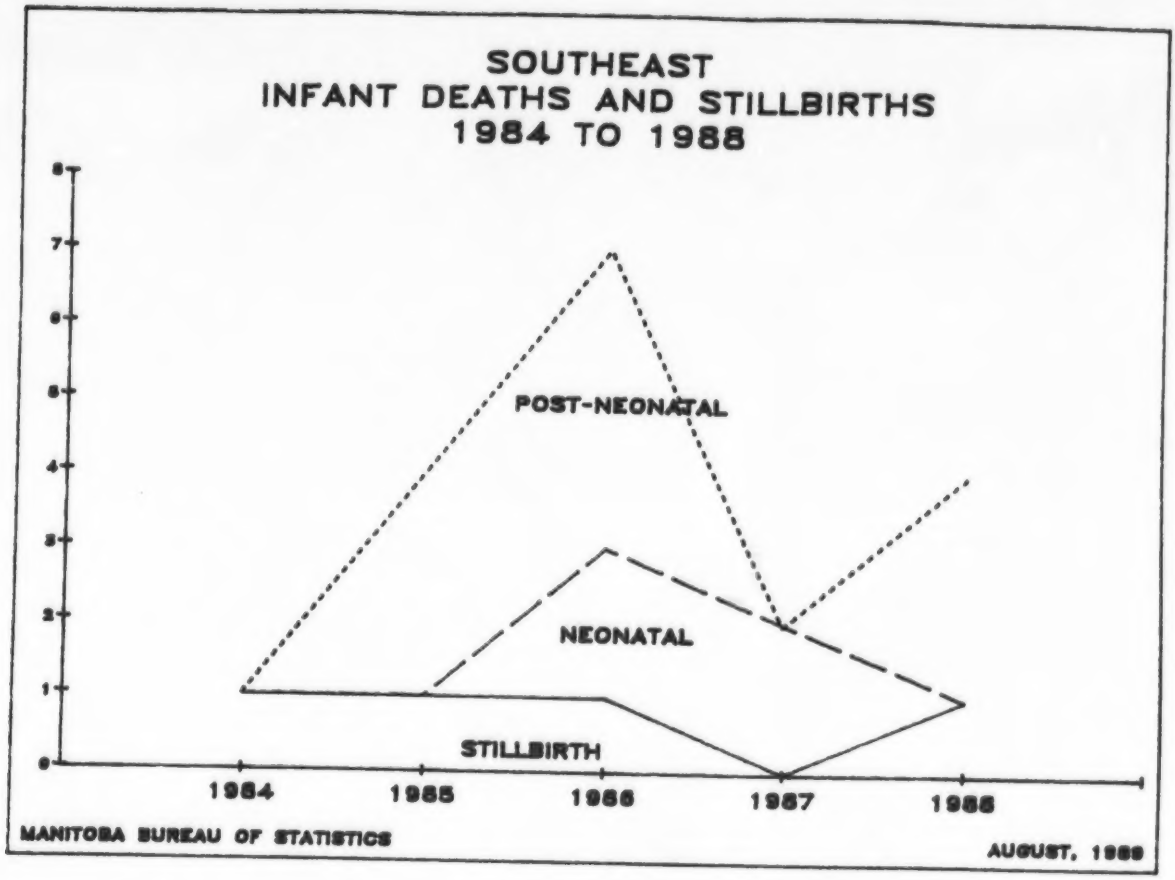
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



SOUTHEAST	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	0	0	0	1
1985	0	3	3	1
1986	2	4	6	1
1987	2	0	2	0
1988	0	3	3	1

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

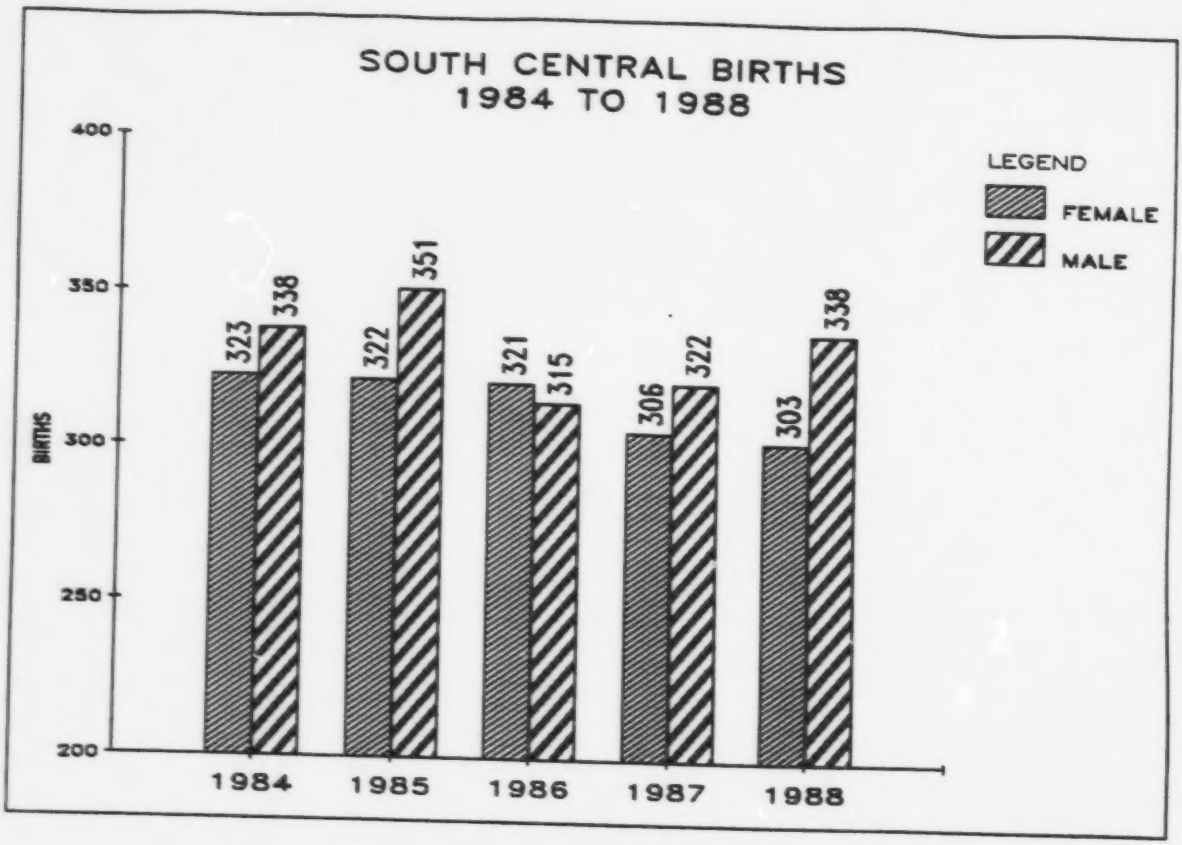
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

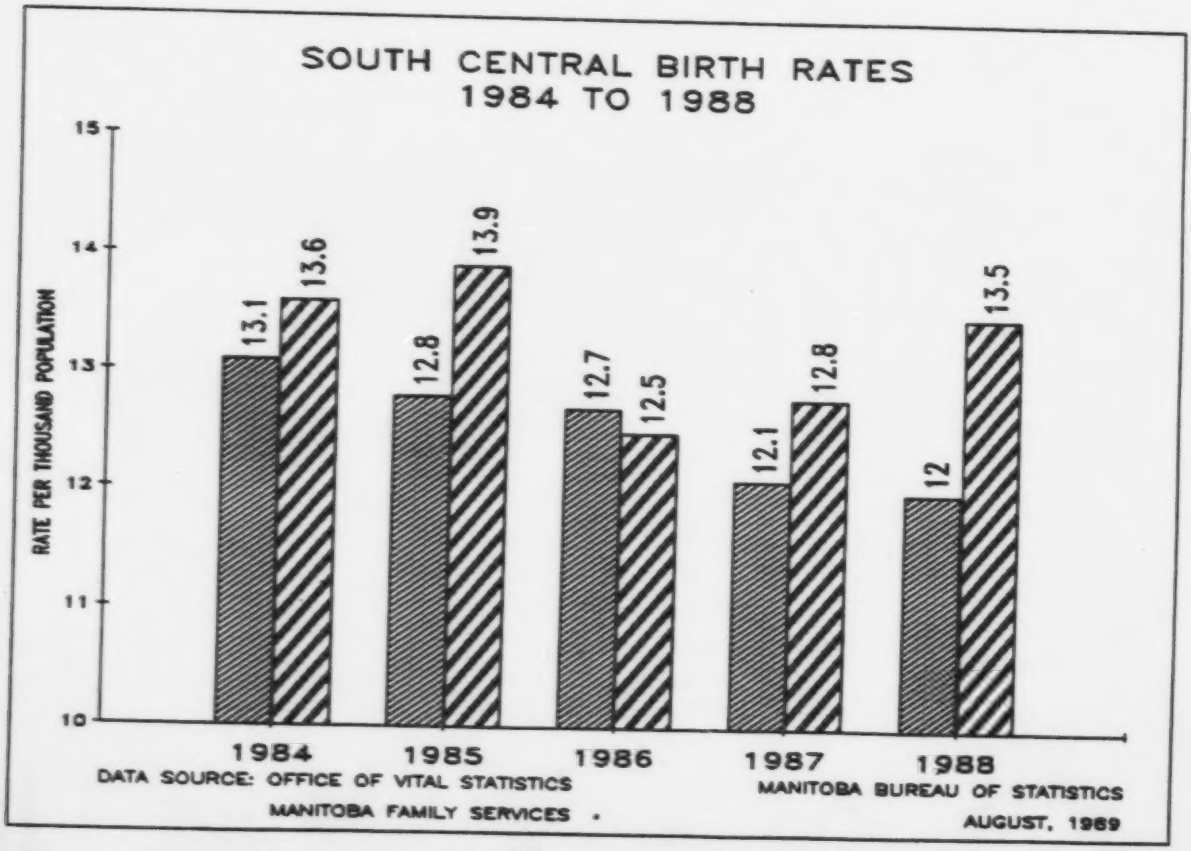
DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

THE

SOUTH CENTRAL

REGION


SOUTH CENTRAL BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
400
350
300
250
200
323
338
322
351
321
315
306
322
303
338
1984
1985
1986
1987
1988


SOUTH CENTRAL BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
15
14
13
12
11
10
13.1
13.6
12.8
13.9
12.7
12.5
12.1
12.8
12
13.5
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
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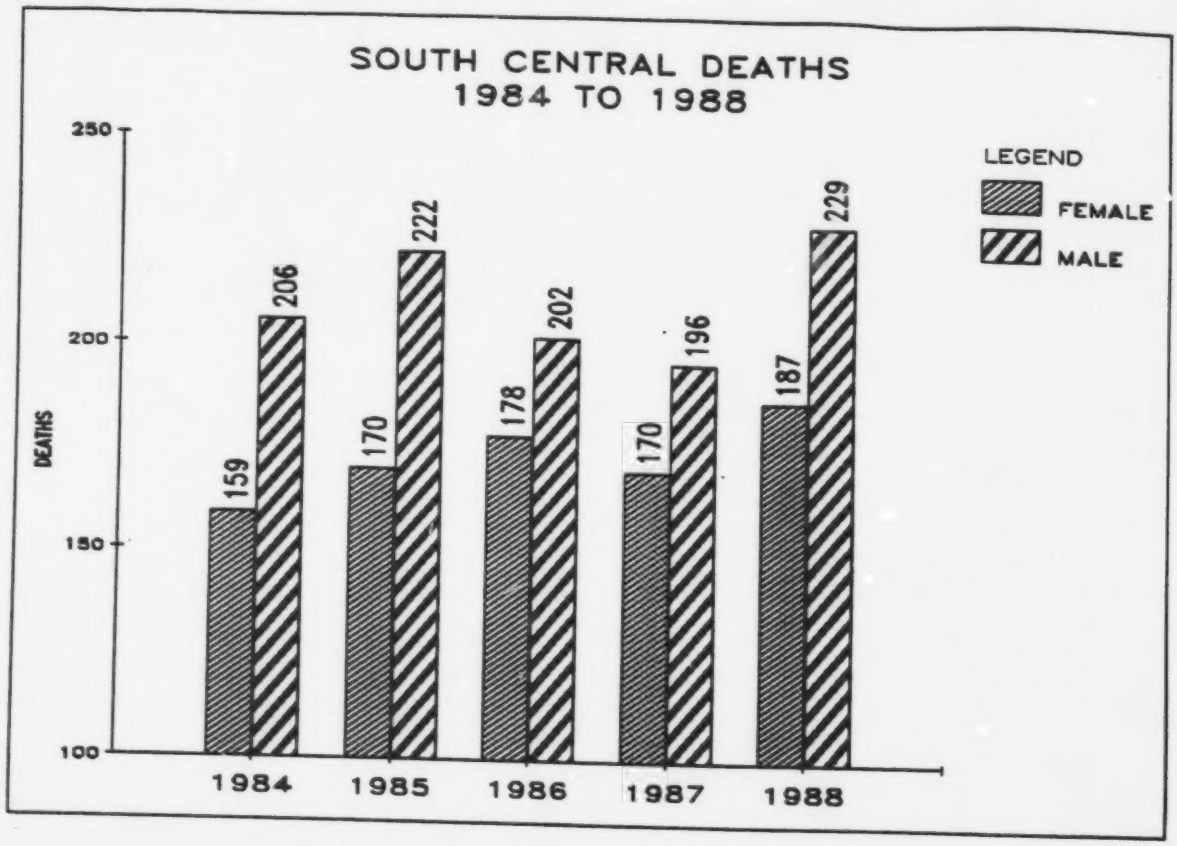
SOUTH CENTRAL DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
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196
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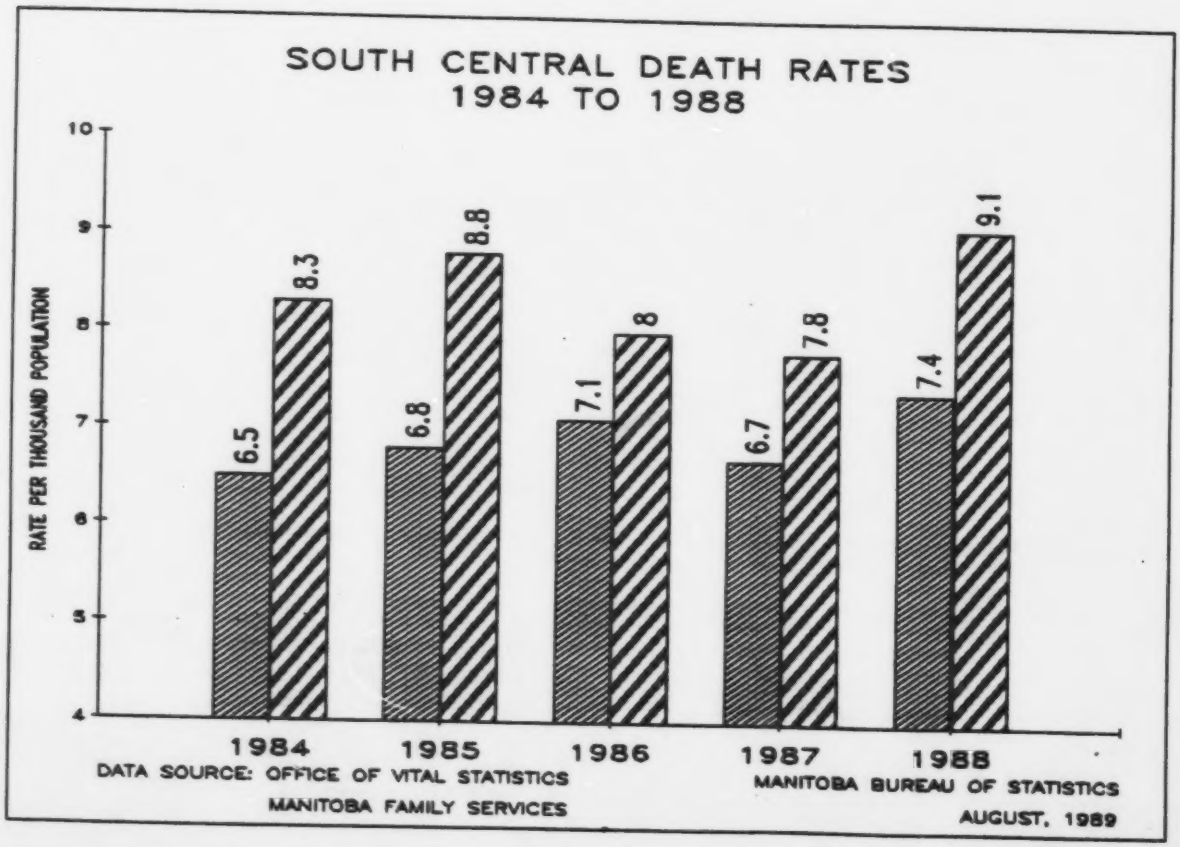
1984
1985
1986
1987
1988


SOUTH CENTRAL DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
10
9
8
7
6
5
4
6.5
8.3
6.8
8.8
7.1
8
6.7
7.8
7.4
9.1
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
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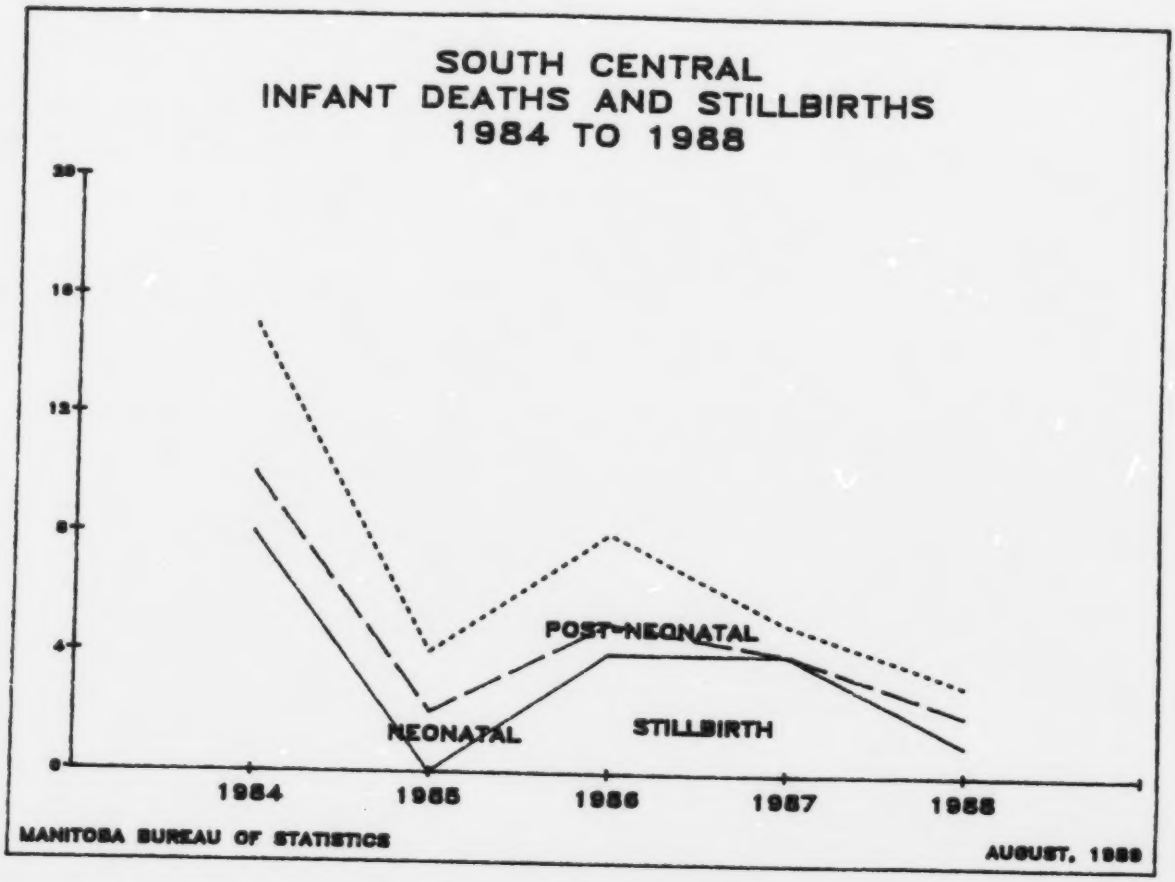
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



SOUTH CENTRAL	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	2	5	7	8
1985	2	2	4	0
1986	1	3	4	4
1987	0	1	1	4
1988	1	1	2	1

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

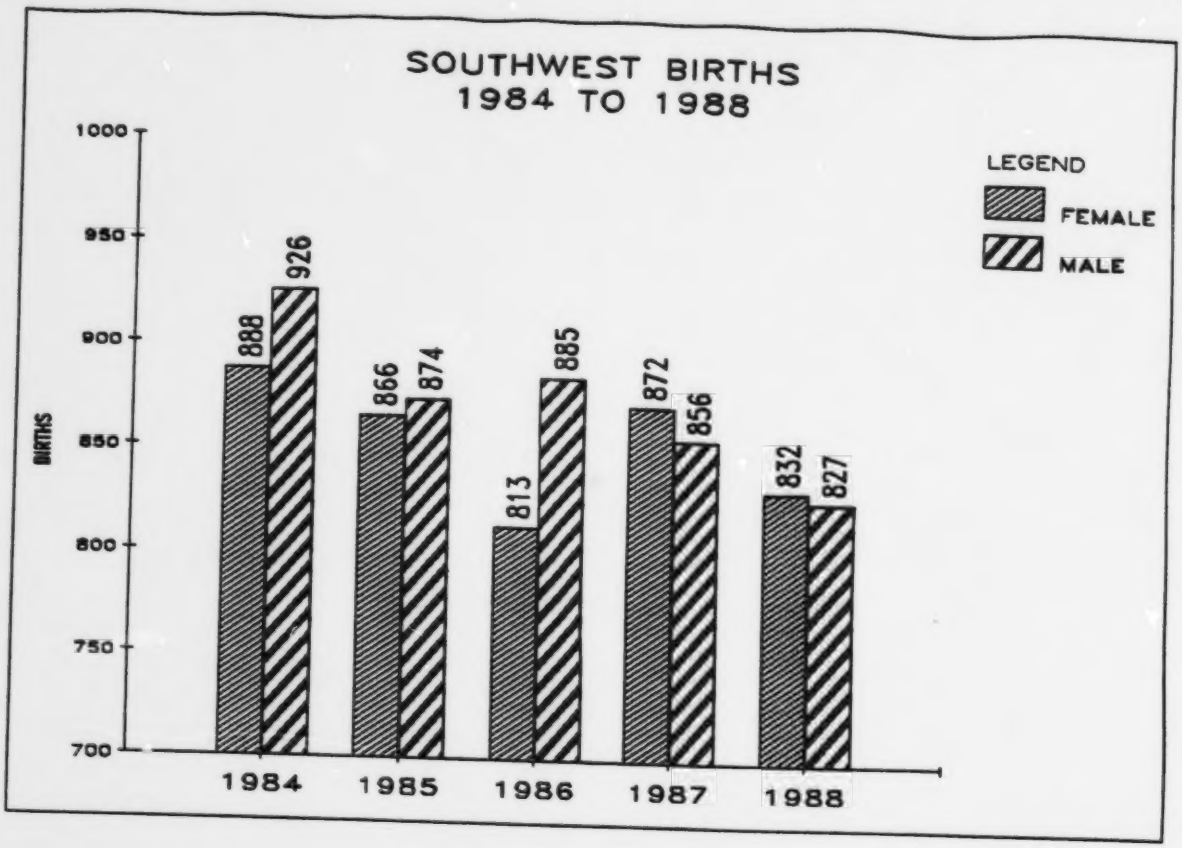
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

THE

SOUTHWEST

REGION


SOUTHWEST BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
1000
950
900
850
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926
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856
832
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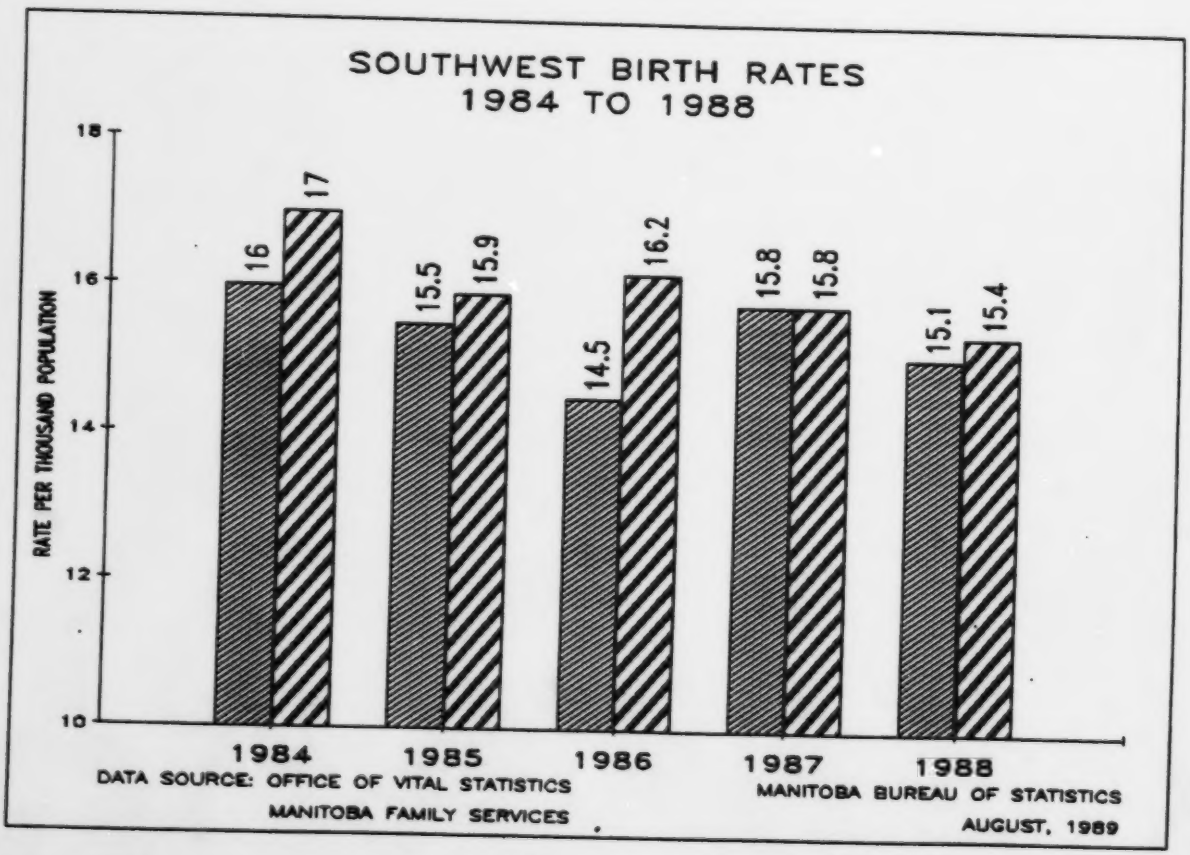
1984
1985
1986
1987
1988


SOUTHWEST BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
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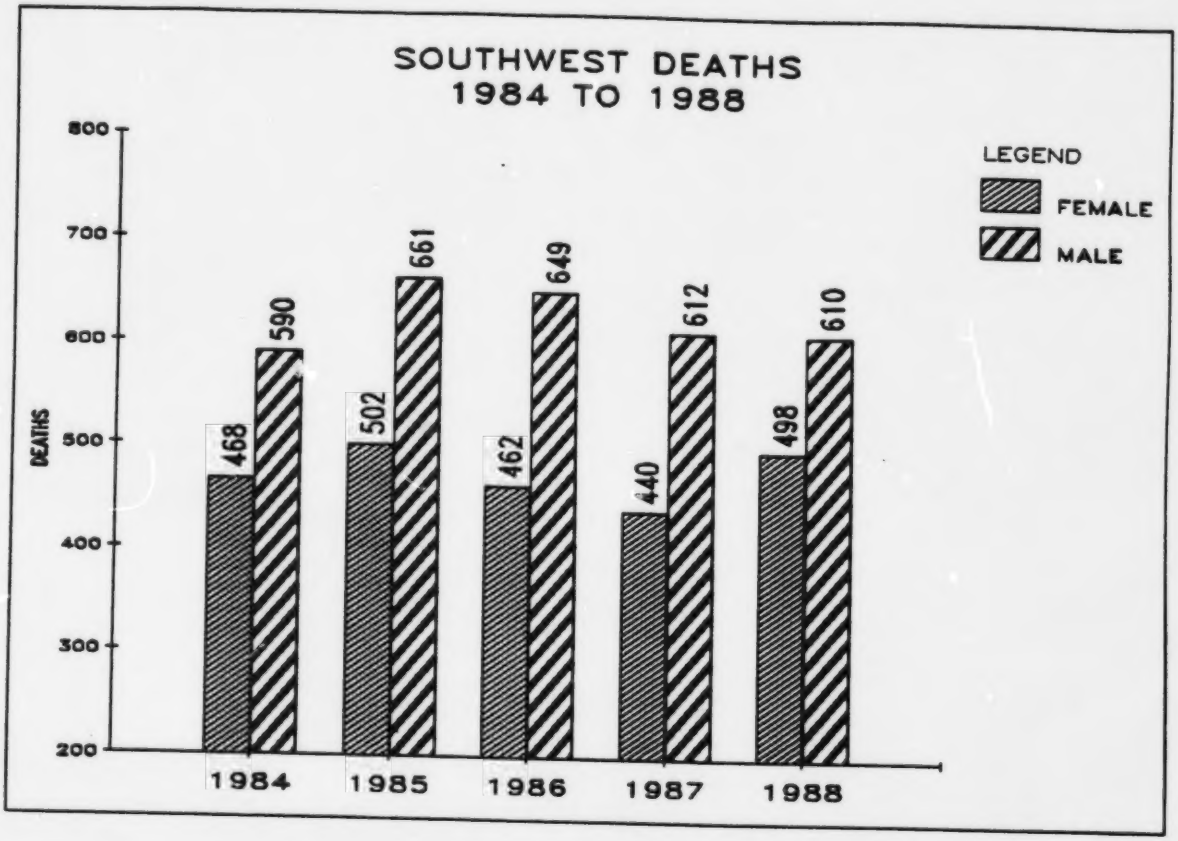
16
14
12
10
16
17
15.5
15.9
14.5
16.2
15.8
15.8
15.1
15.4
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


SOUTHWEST DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
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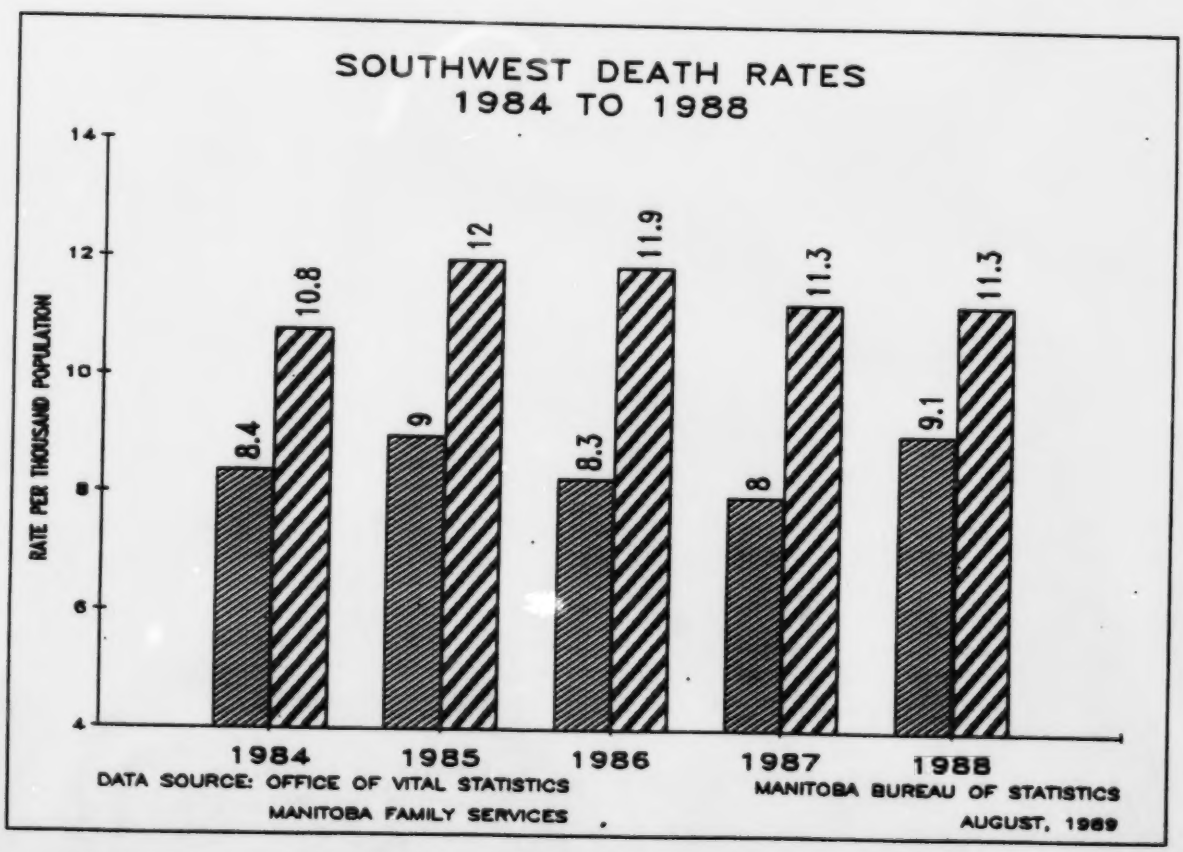
1985
1986
1987
1988


SOUTHWEST DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
14
12
10
8
6
4
8.4
10.8
9
12
8.3
11.9
8
11.3
9.1
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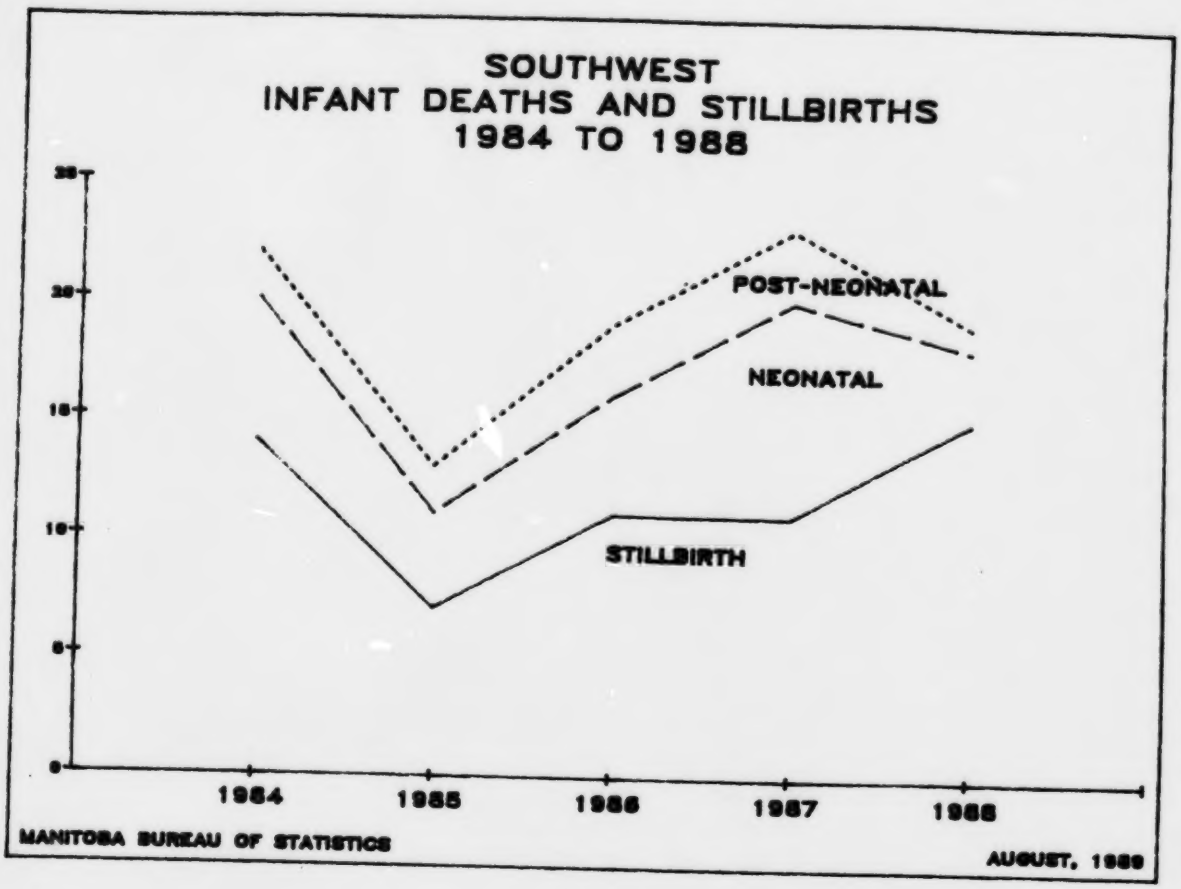
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



SOUTHWEST	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	6	2	8	14
1985	4	2	6	7
1986	5	3	8	11
1987	9	3	12	11
1988	3	1	4	15

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

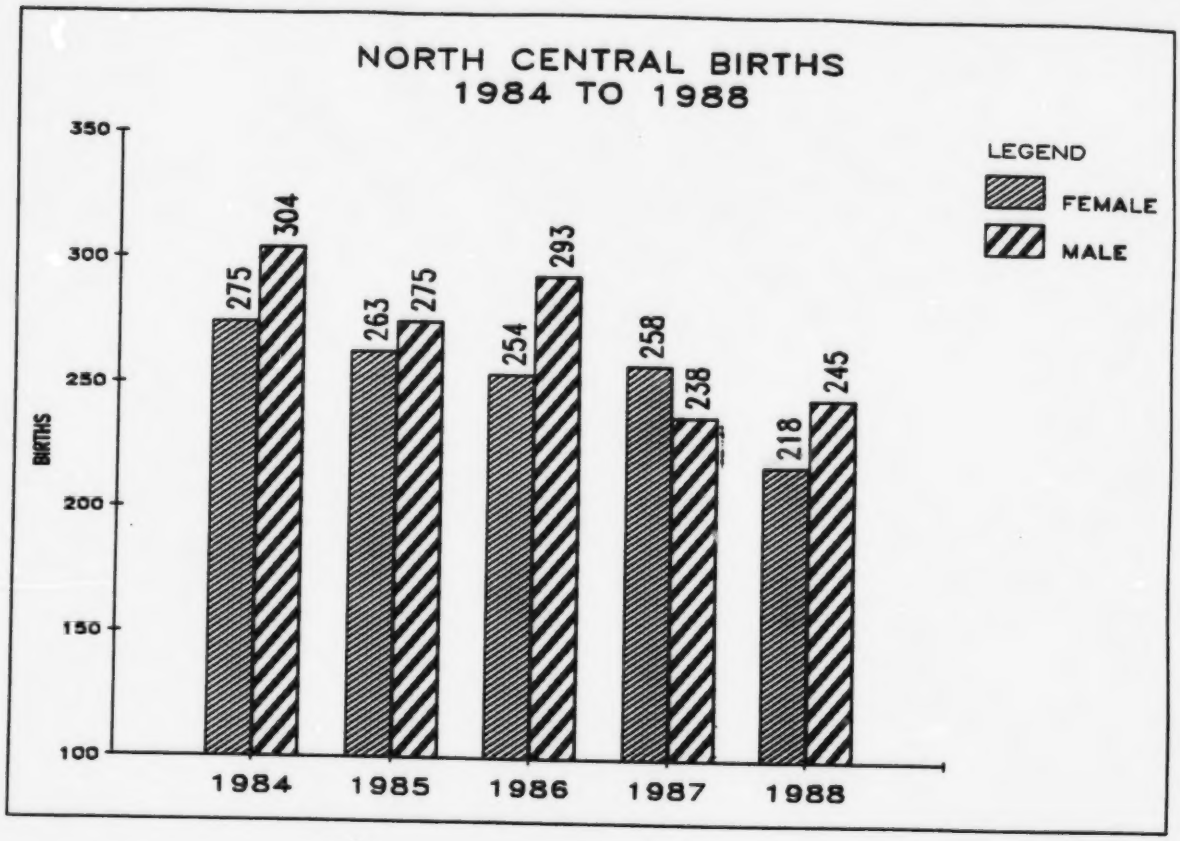
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

THE

NORTH CENTRAL

REGION


NORTH CENTRAL BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
350
300
250
200
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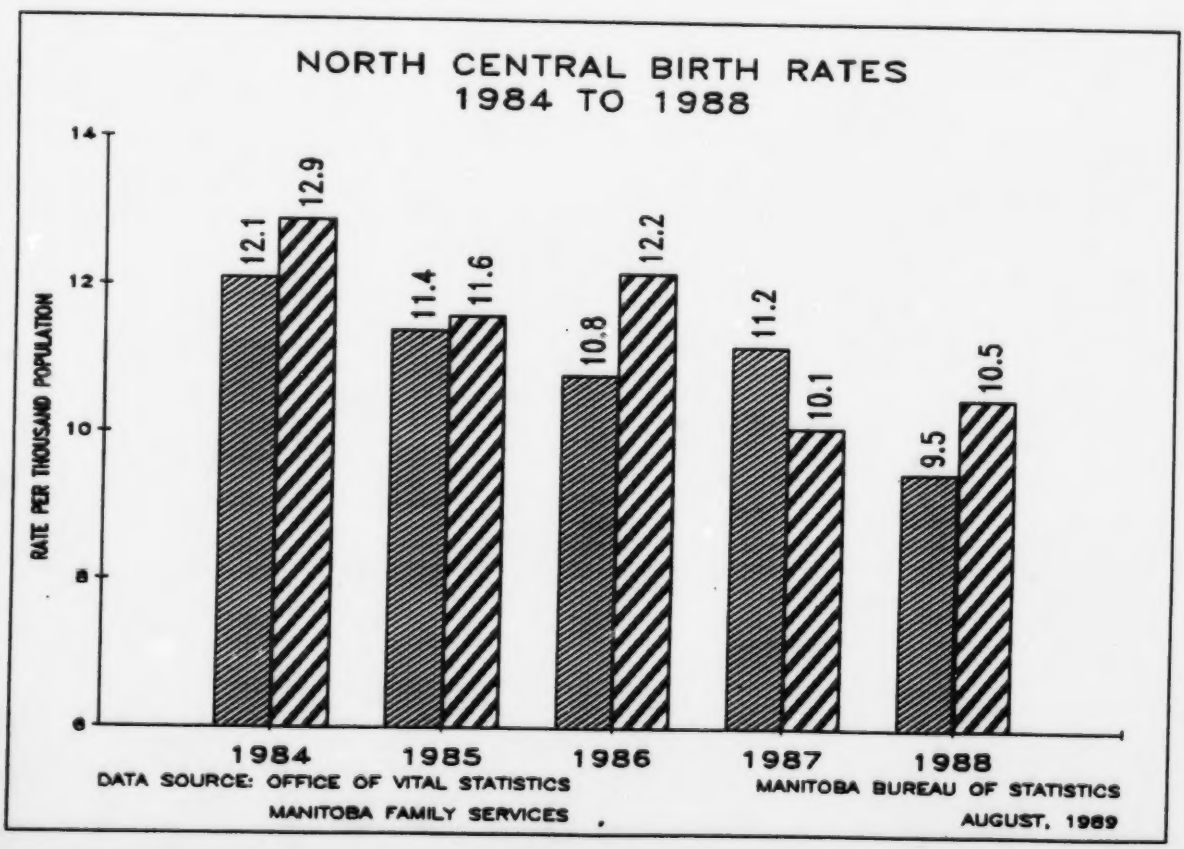
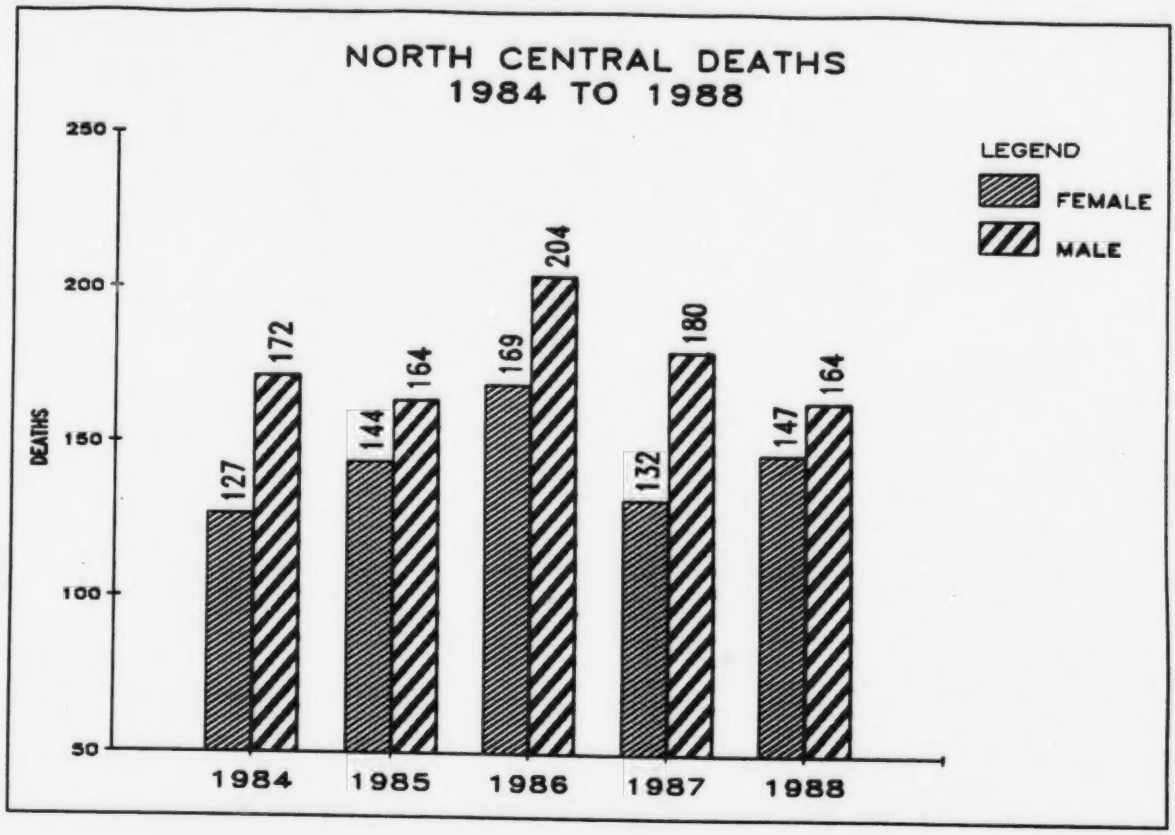
100
275
304
263
275
254
293
258
238
218
245
1984
1985
1986
1987
1988


NORTH CENTRAL BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
14
12
10
8
6
12.1
12.9
11.4
11.6
10.8
12.2
11.2
10.1
9.5
10.5
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


NORTH CENTRAL DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
250
200
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100
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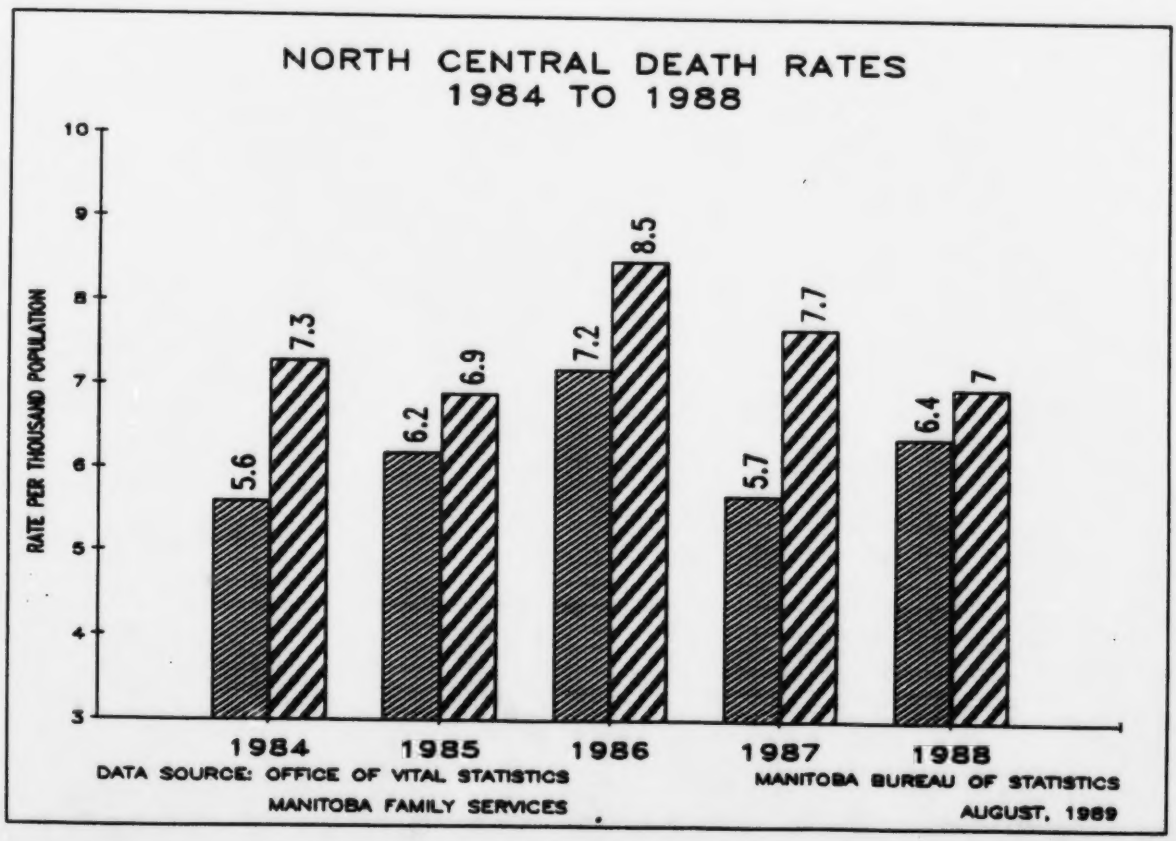
144
164
169
204
132
180
147
164
1984
1985
1986
1987
1988


NORTH CENTRAL DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
10
9
8
7
6
5
4
3
5.6
7.3
6.2
6.9
7.2
8.5
5.7
7.7
6.4
7
1984
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1987
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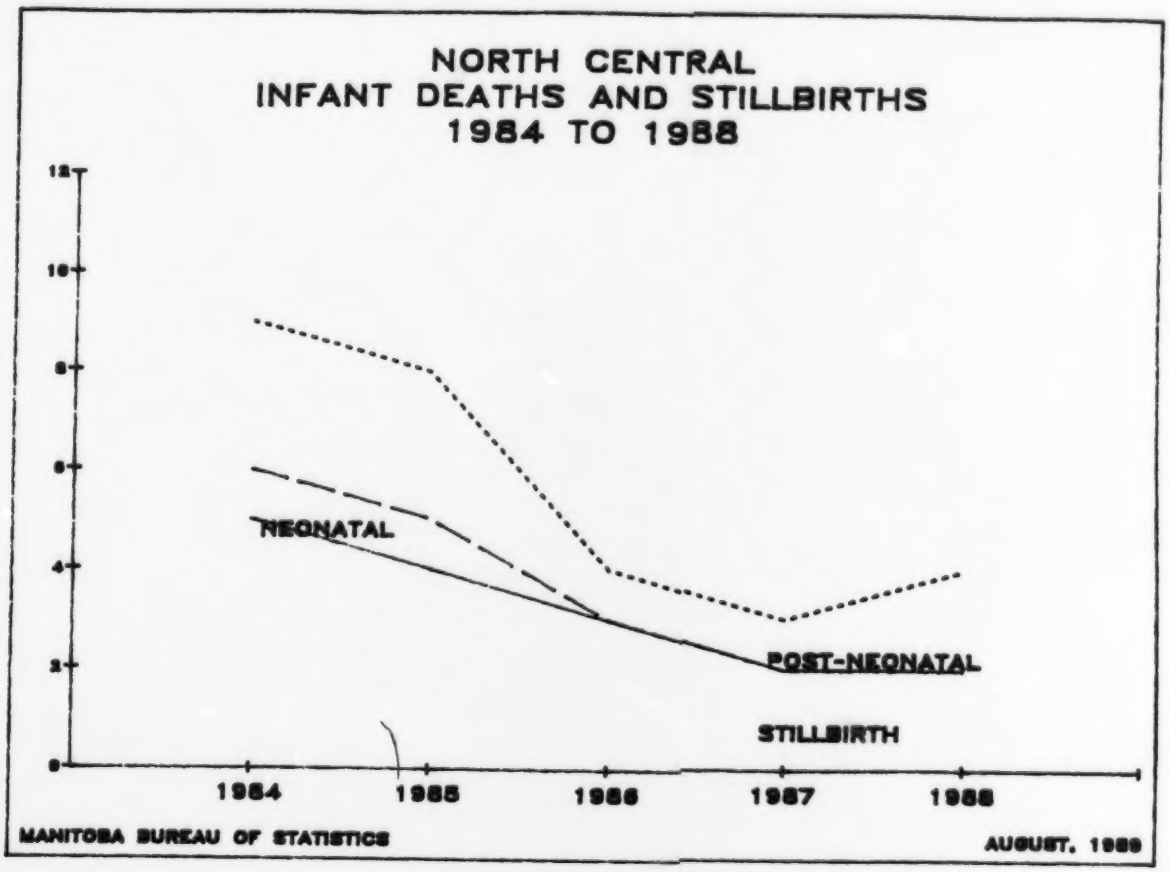
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



NORTH CENTRAL	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	1	3	4	5
1985	1	3	4	4
1986	0	1	1	3
1987	0	1	1	2
1988	0	2	2	2

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

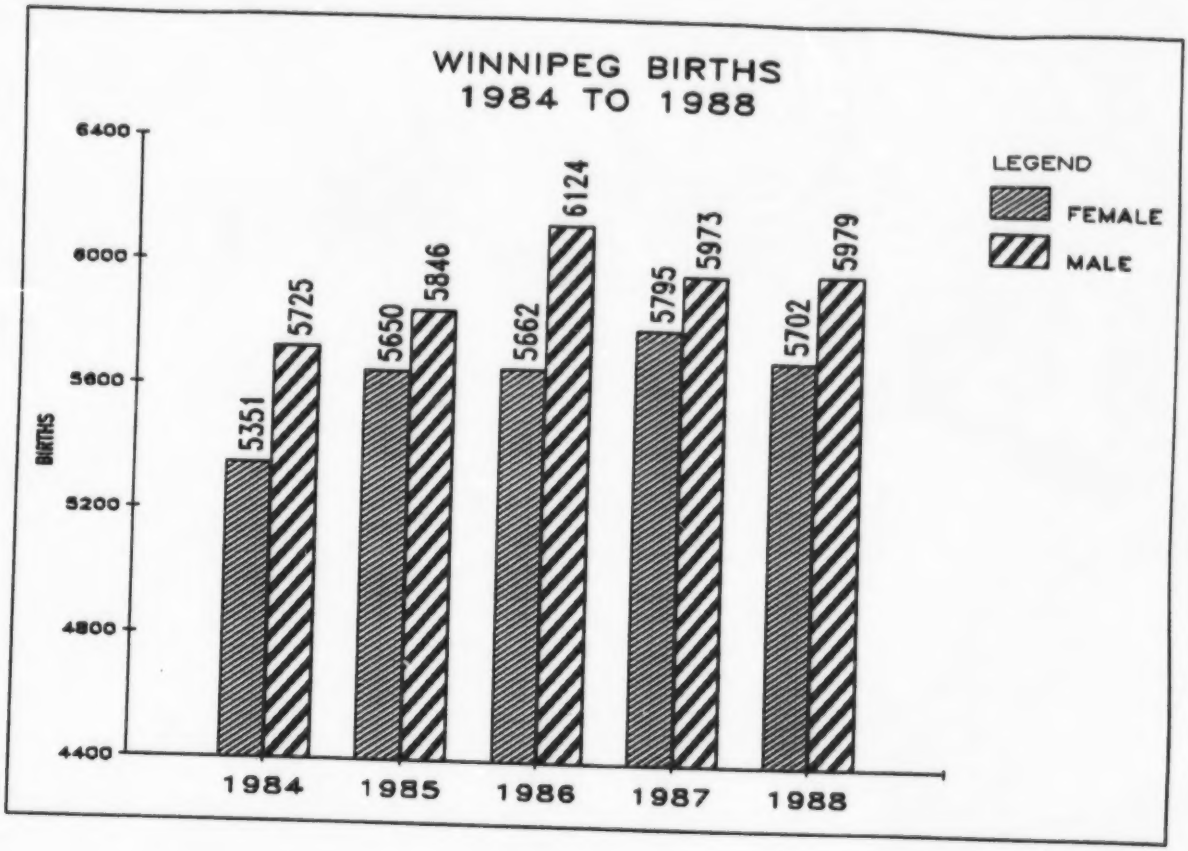
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

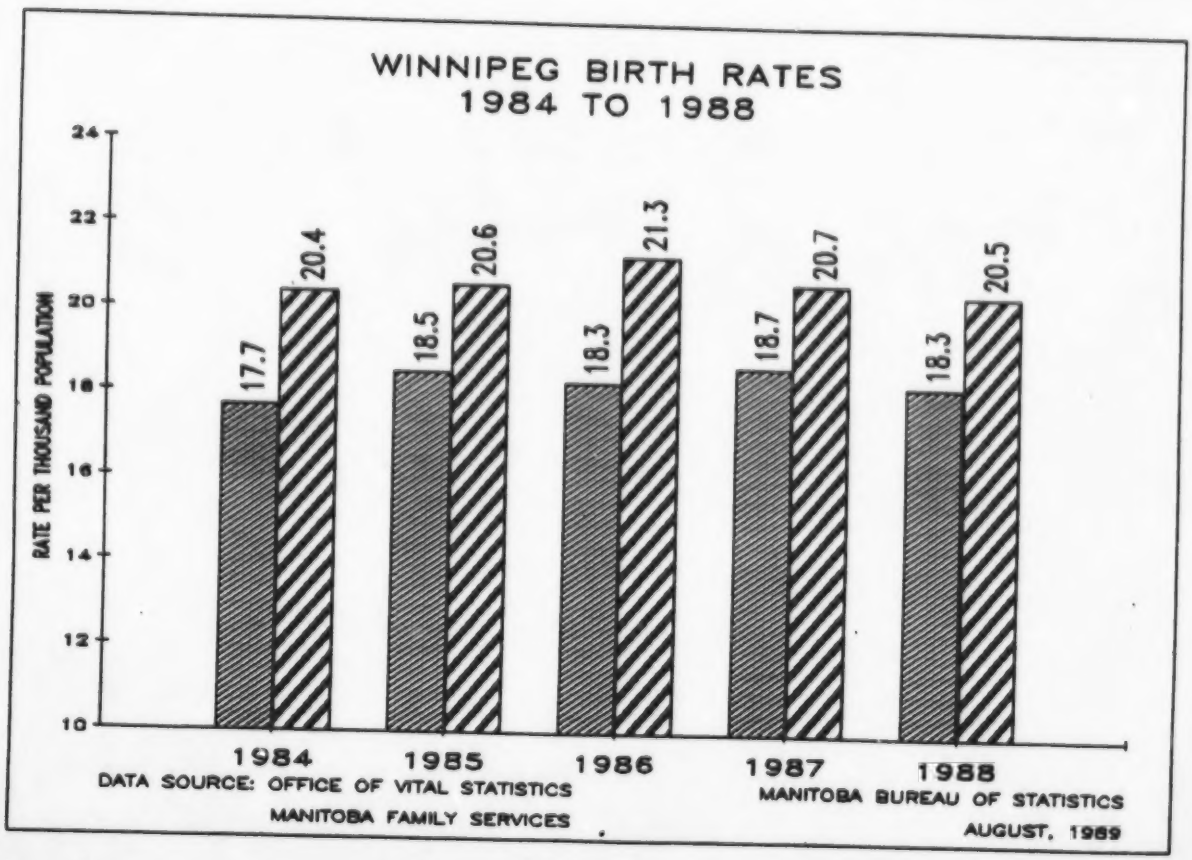
DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

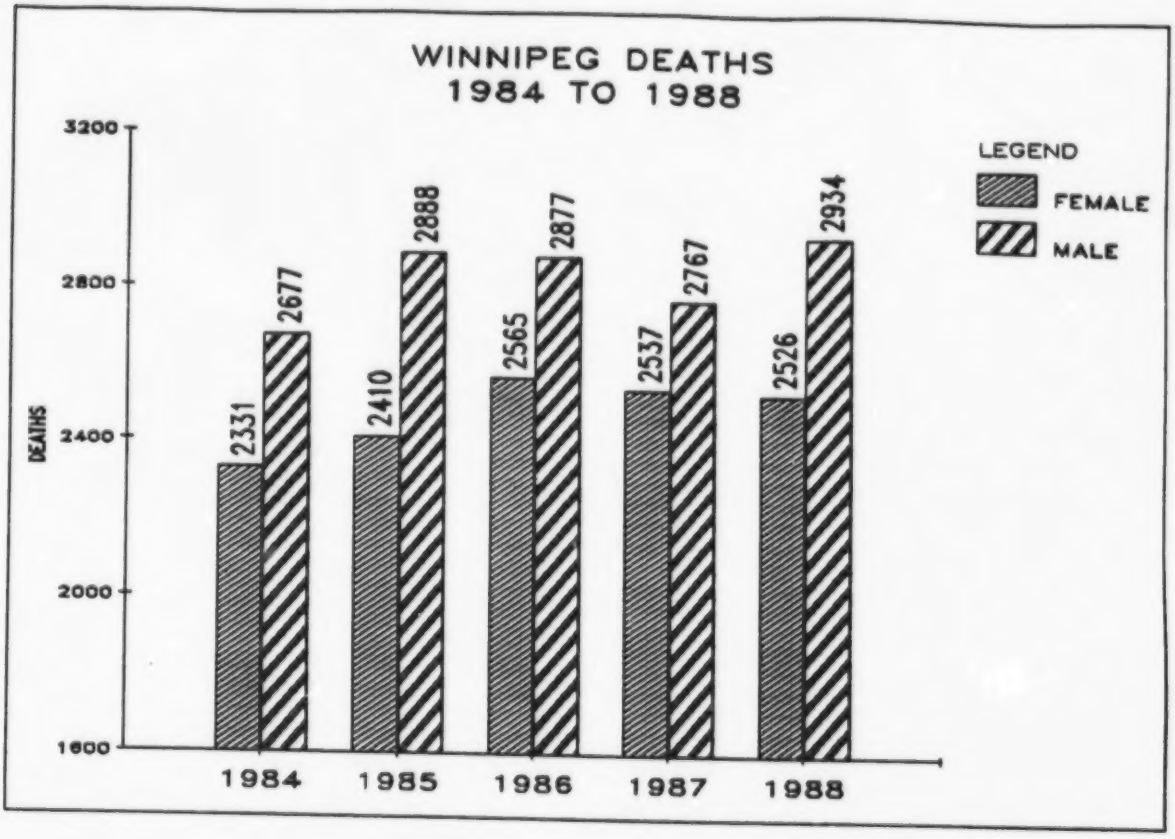
THE

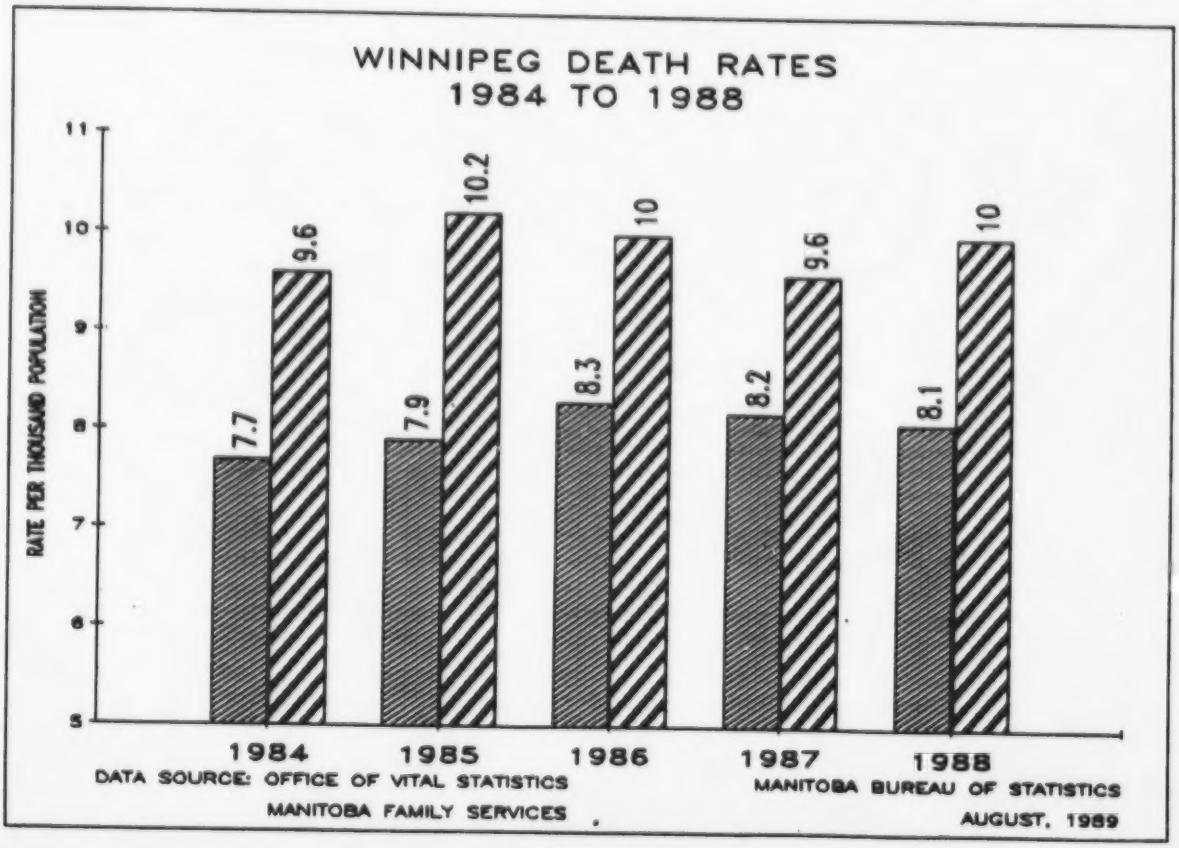
WINNIPEG

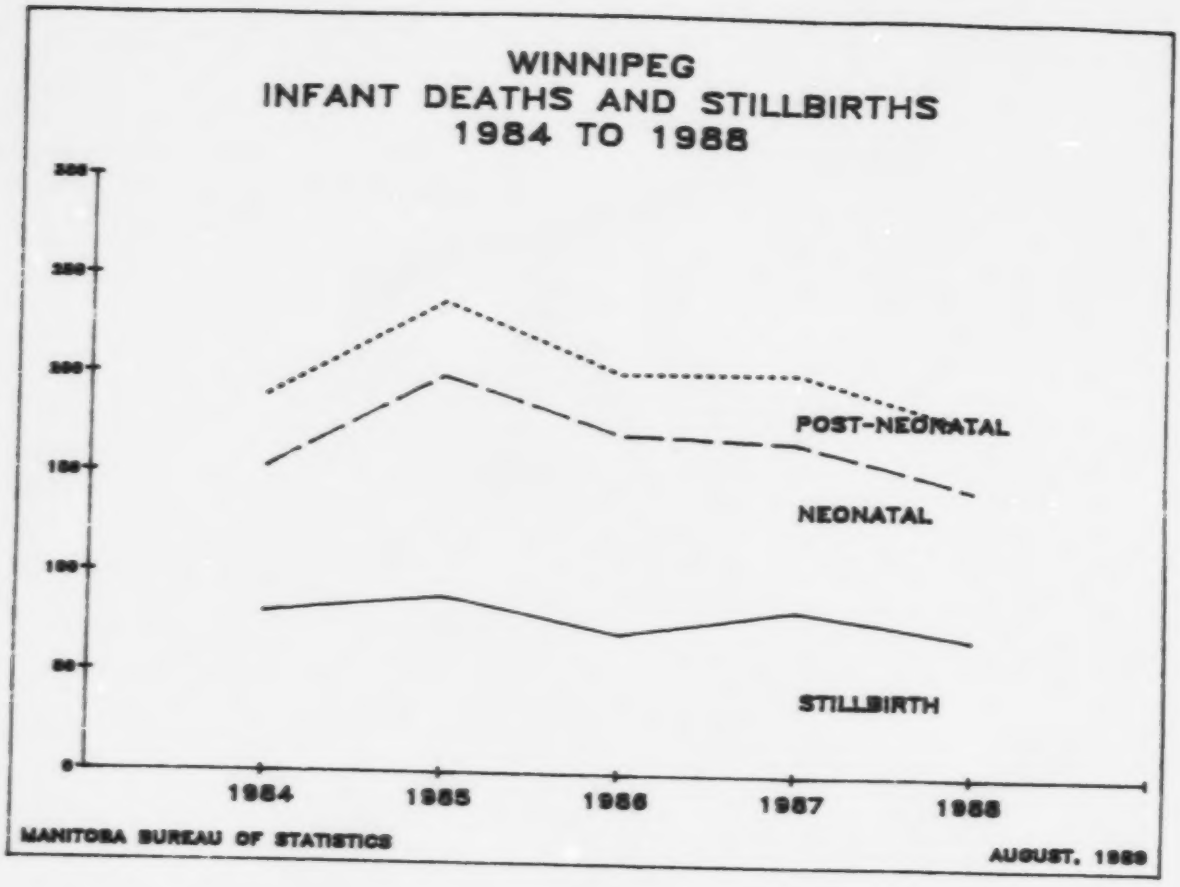
REGION


WINNIPEG BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
6400
6000
5600
5200
4800
4400
5351
5725
5650
5846
5662
6124
5795
5973
5702
5979
1984
1985
1986
1987
1988


WINNIPEG BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
24
22
20
18
16
14
12
10
17.7
20.4
18.5
20.6
18.3
21.3
18.7
20.7
18.3
20.5
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


WINNIPEG DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
3200
2800
2400
2000
1600
2331
2677
2410
2888
2565
2877
2537
2767
2526
2934
1984
1985
1986
1987
1988


WINNIPEG DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
11
10
9
8
7
6
5
7.7
9.6
7.9
10.2
8.3
10
8.2
9.6
8.1
10
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



WINNIPEG	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	73	36	109	80
1985	111	37	148	88
1986	100	31	131	70
1987	84	35	119	83
1988	75	32	107	69

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

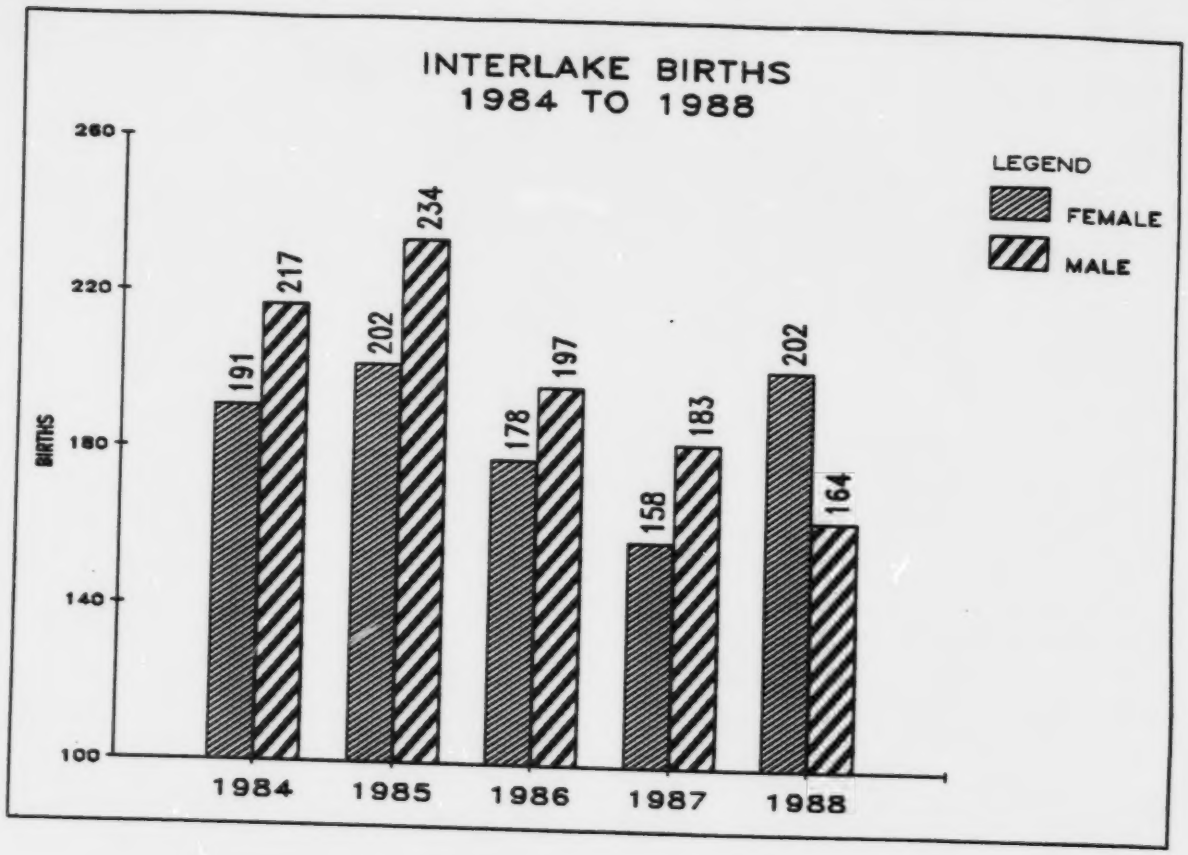
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

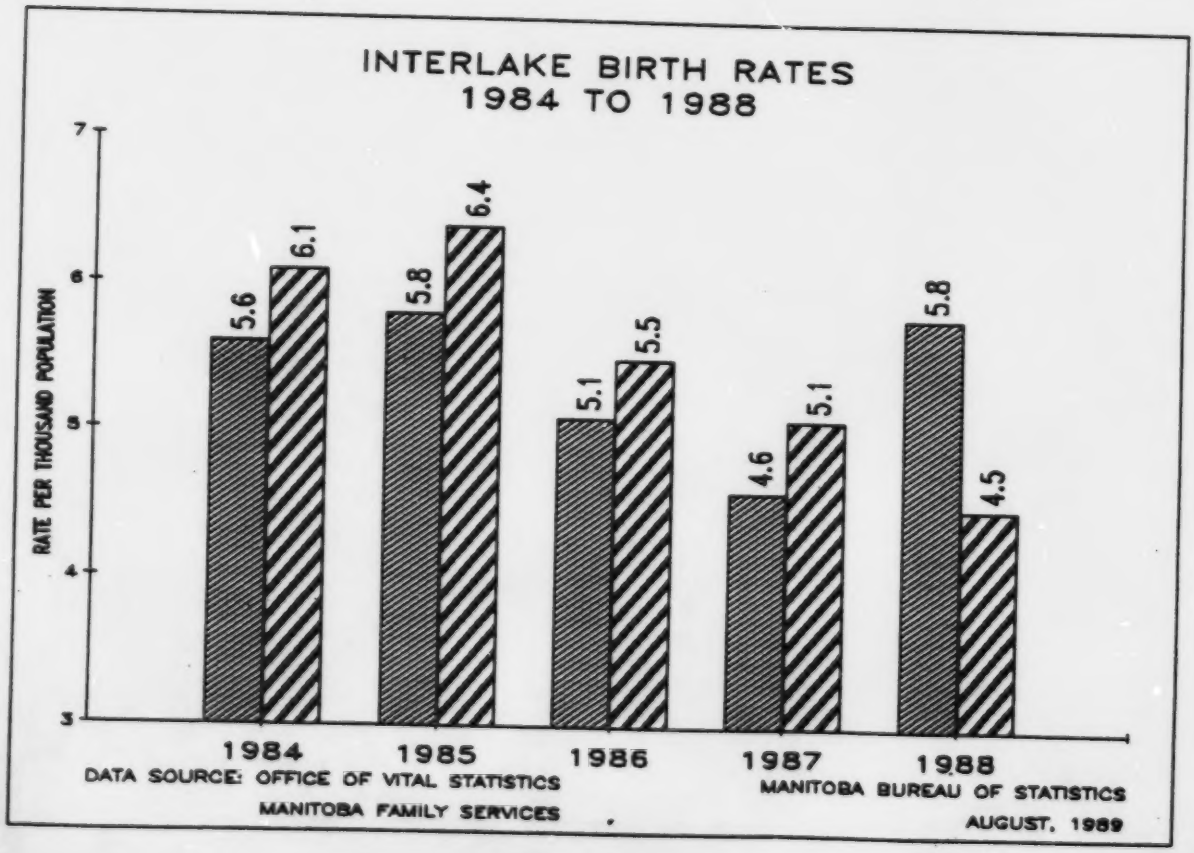
DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

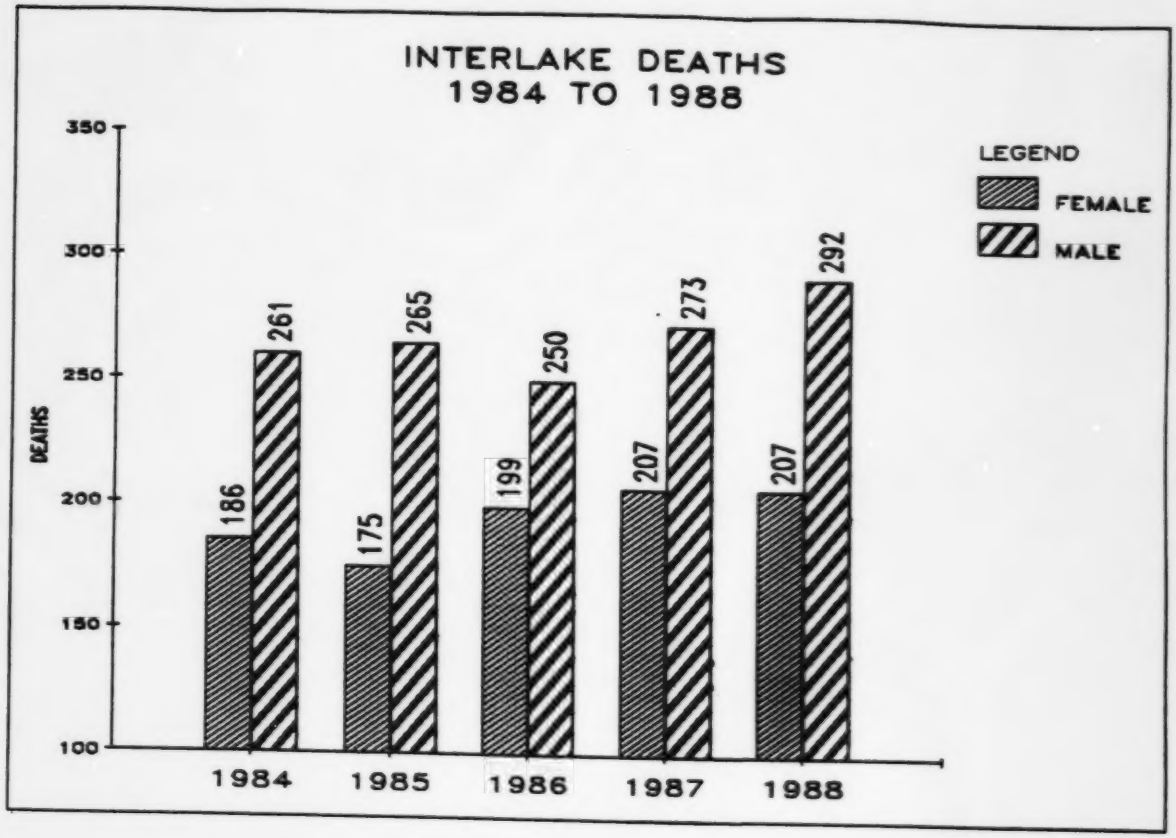
THE

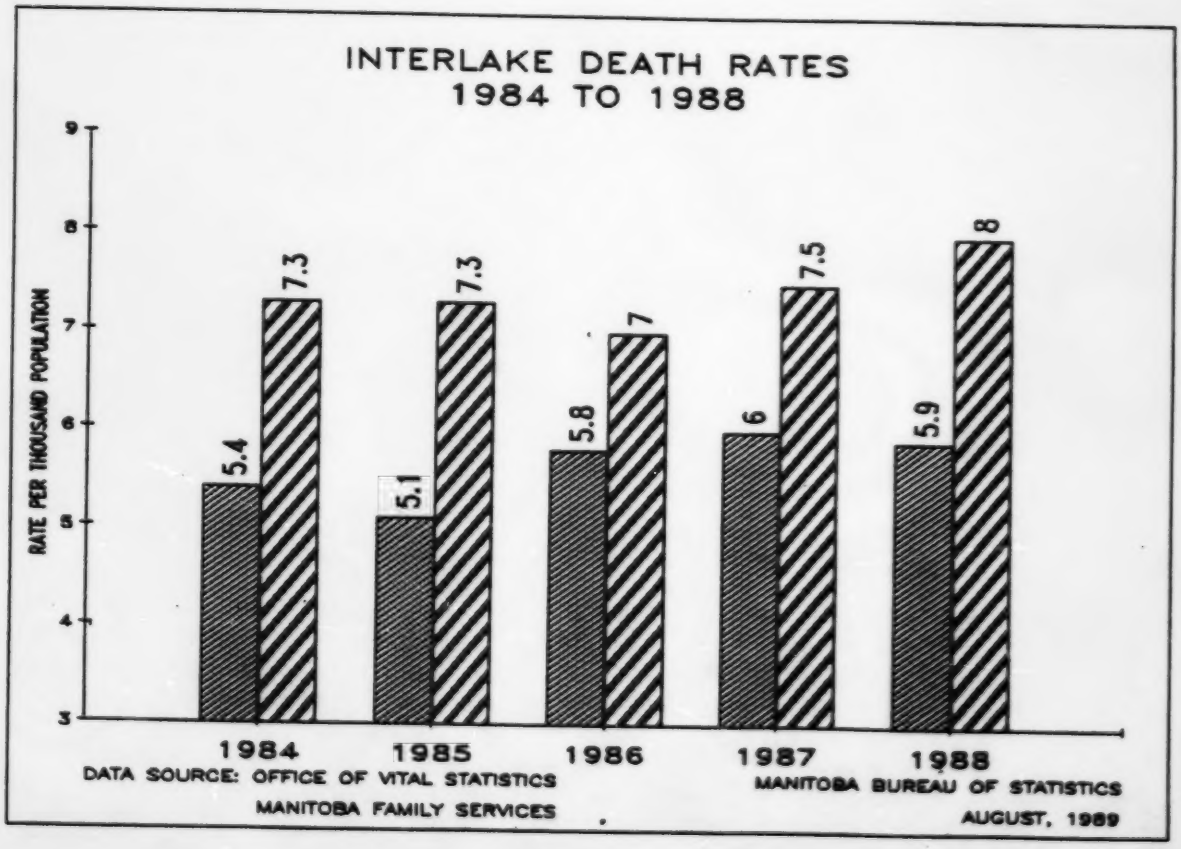
INTERLAKE

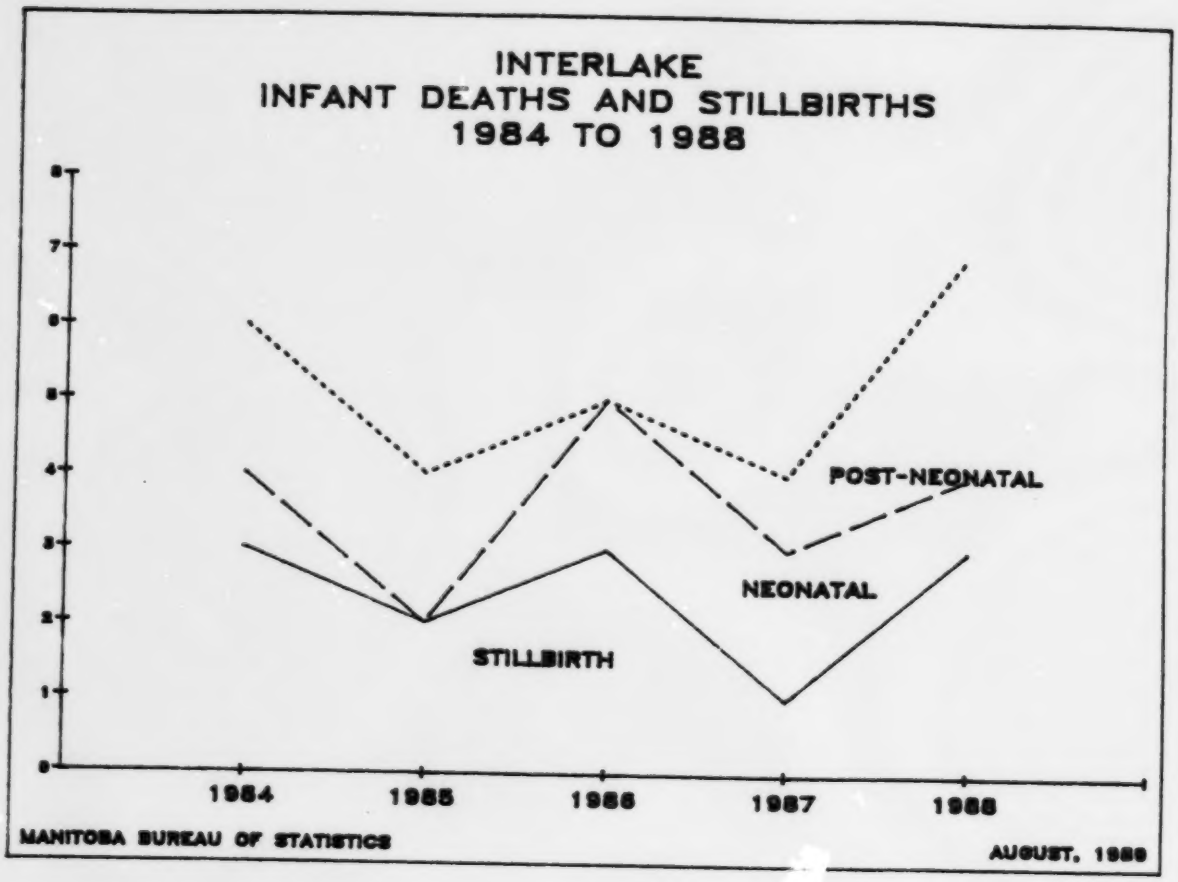
REGION


INTERLAKE BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
260
220
180
140
100
191
217
202
234
178
197
158
183
202
164
1984
1985
1986
1987
1988


INTERLAKE BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
7
6
5
4
3
5.6
6.1
5.8
6.4
5.1
5.5
4.6
5.1
5.8
4.5
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


INTERLAKE DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
350
300
250
200
150
100
186
261
175
265
199
250
207
273
207
292
1984
1985
1986
1987
1988


INTERLAKE DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
9
8
7
6
5
4
3
5.4
7.3
5.1
7.3
5.8
7
6
7.5
5.9
8
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



INTERLAKE	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	1	2	3	3
1985	0	2	2	2
1986	2	0	2	3
1987	2	1	3	1
1988	1	3	4	3

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

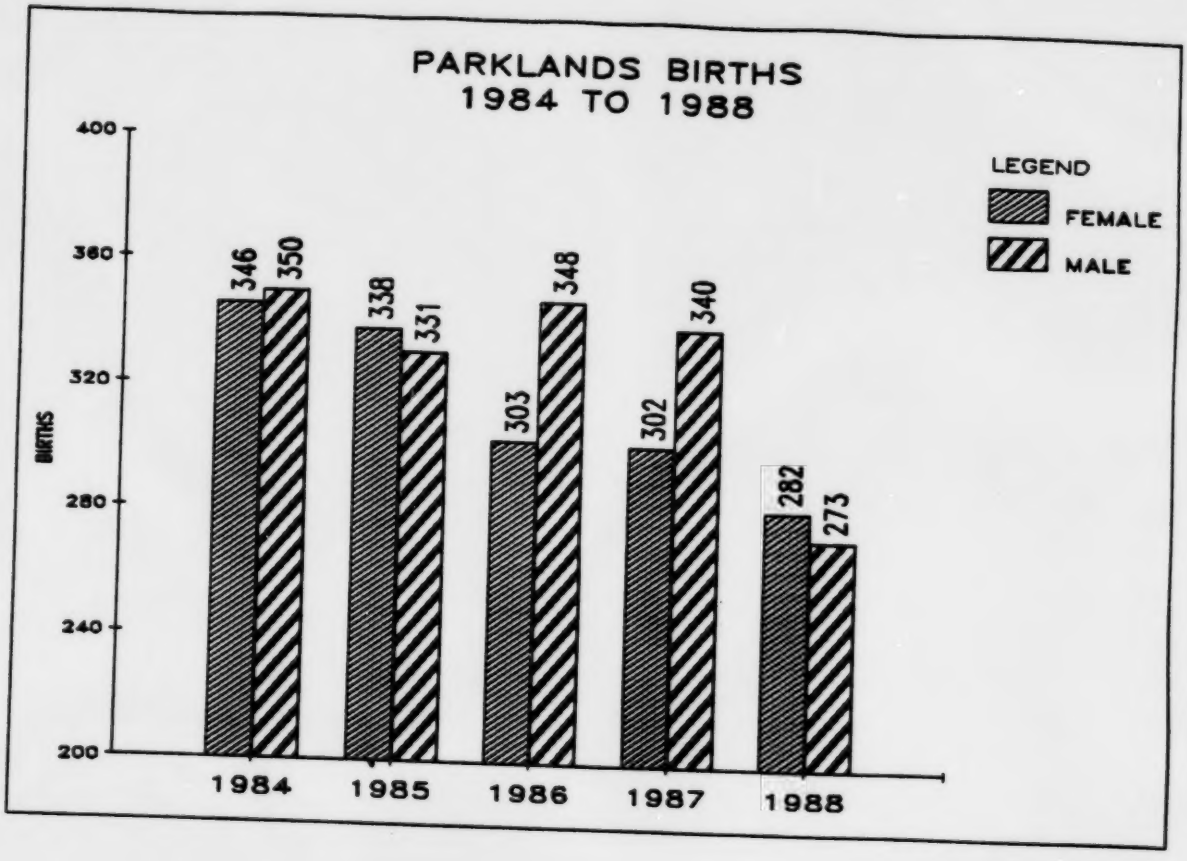
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

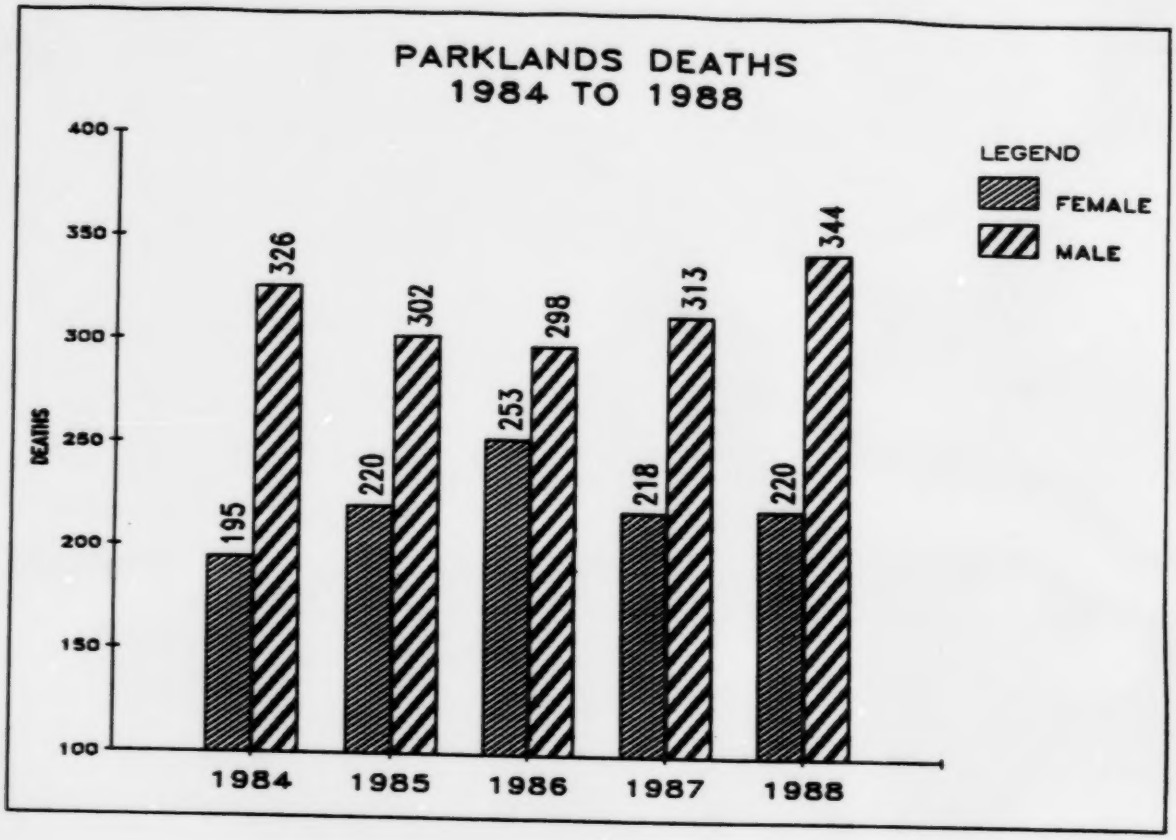
THE

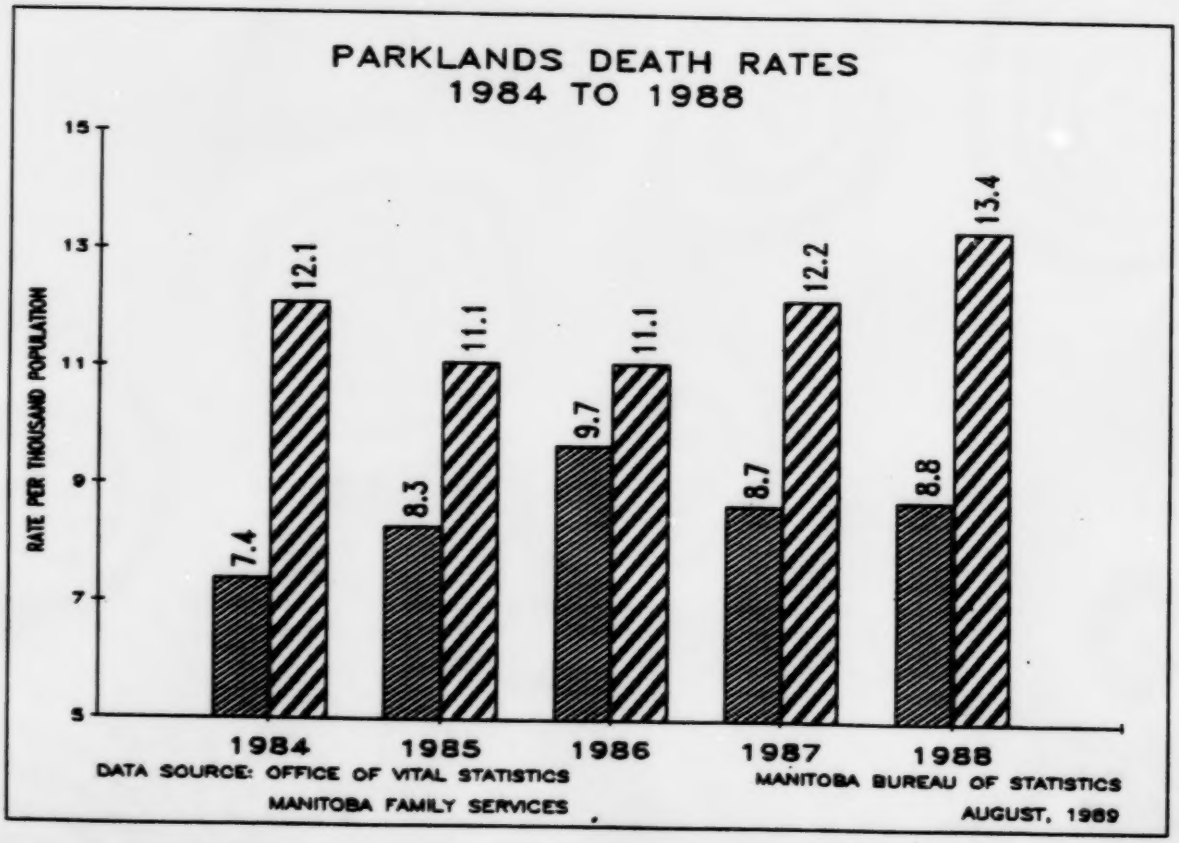
PARKLANDS

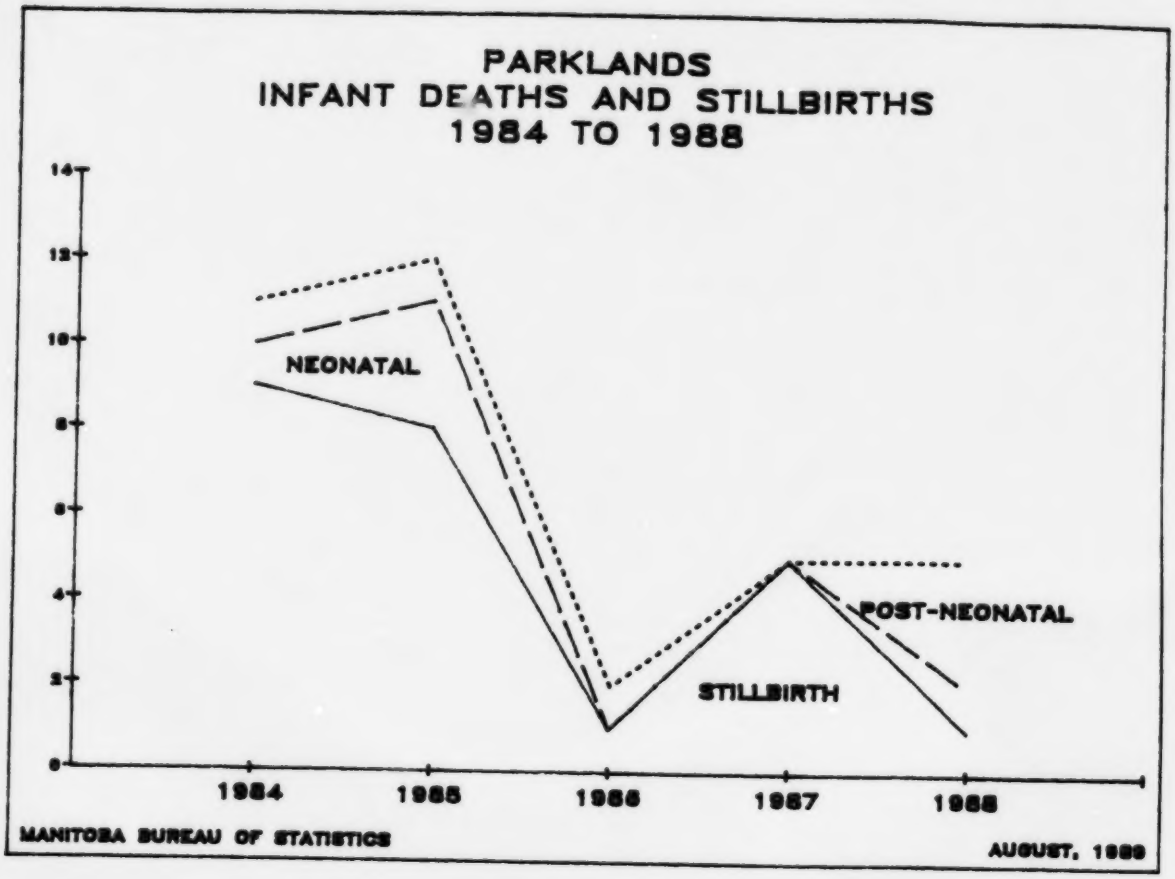
REGION


PARKLANDS BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
400
360
320
280
240
200
346
350
338
331
303
348
302
340
282
273
1984
1985
1986
1987
1988

PARKLANDS BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
14
13
12
11
10
9
13.2
13
12.8
12.2
11.6
12.9
12
13.2
11.2
10.7
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


PARKLANDS DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
400
350
300
250
200
150
100
195
326
220
302
253
298
218
313
220
344
1984
1985
1986
1987
1988


PARKLANDS DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
15
13
11
9
7
5
7.4
12.1
8.3
11.1
9.7
11.1
8.7
12.2
8.8
13.4
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



PARKLANDS	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	1	1	2	9
1985	3	1	4	8
1986	0	1	1	1
1987	0	0	0	5
1988	1	3	4	1

NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

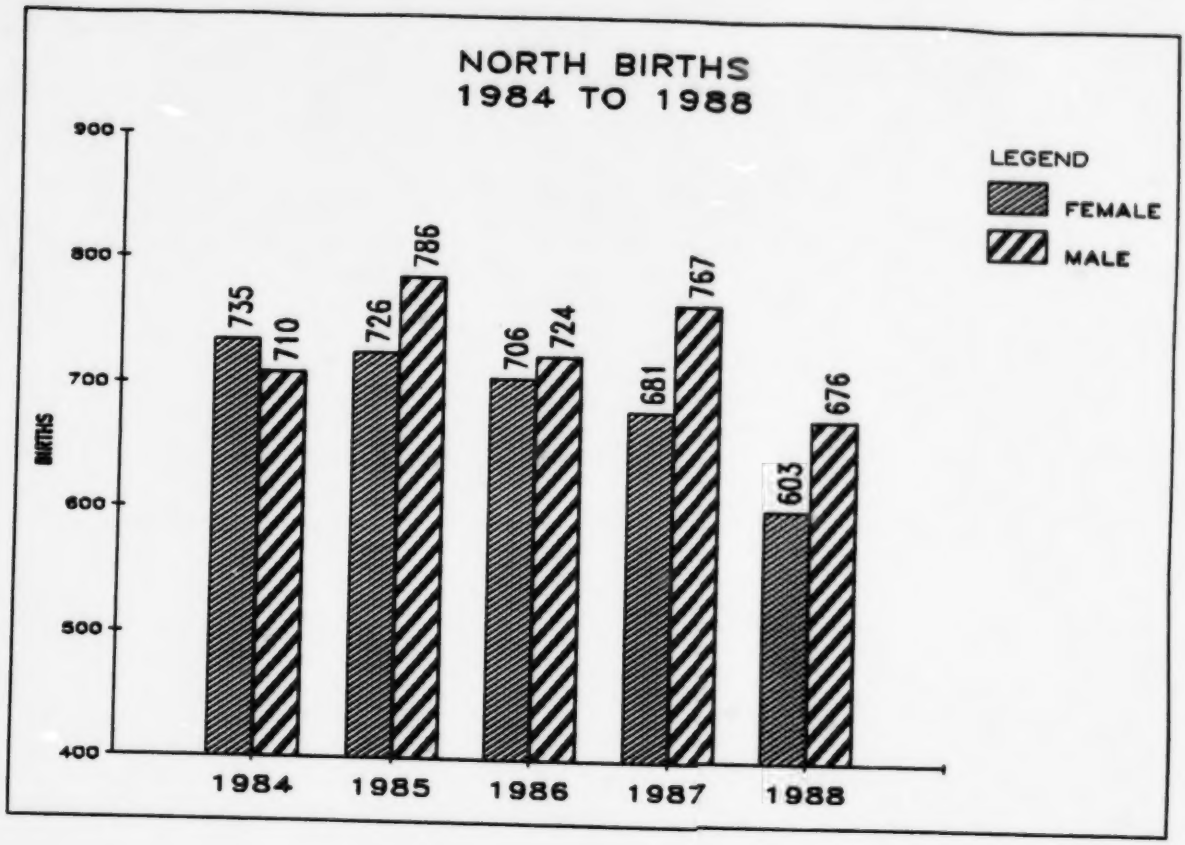
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

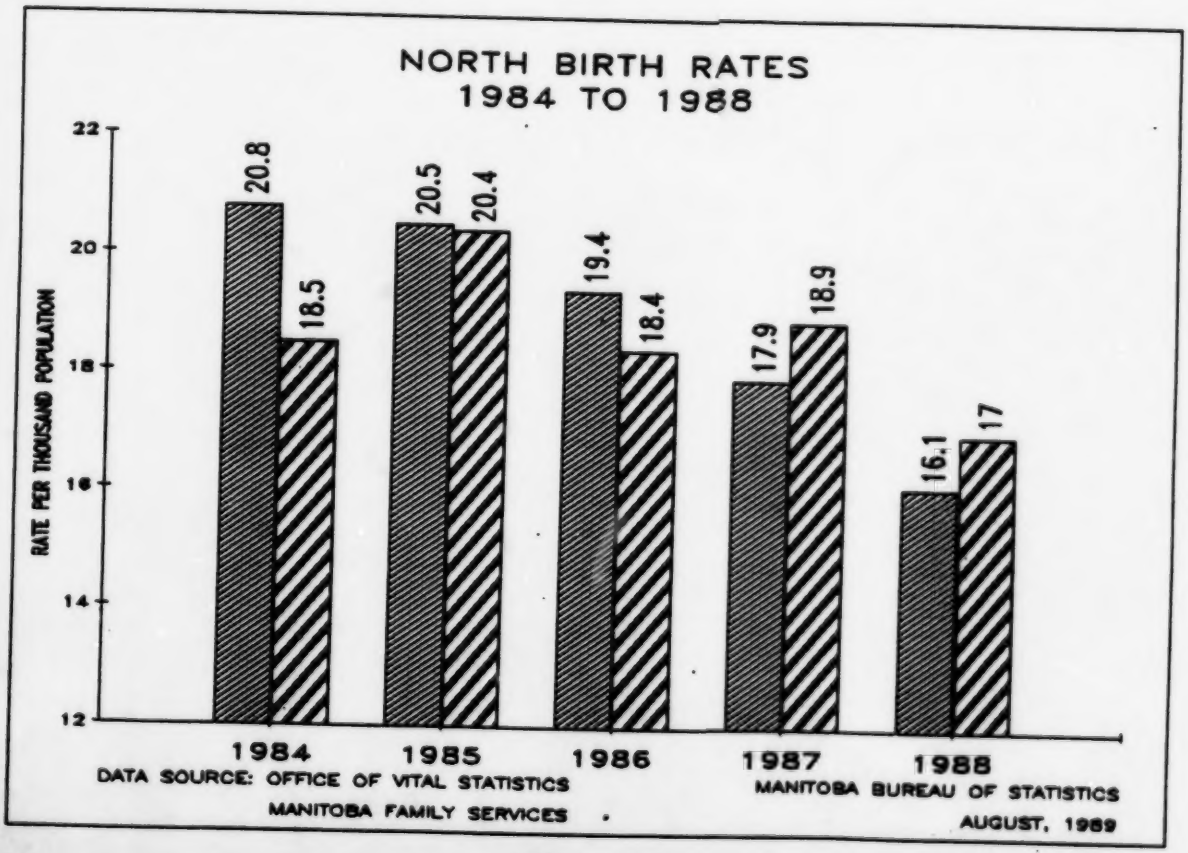
DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

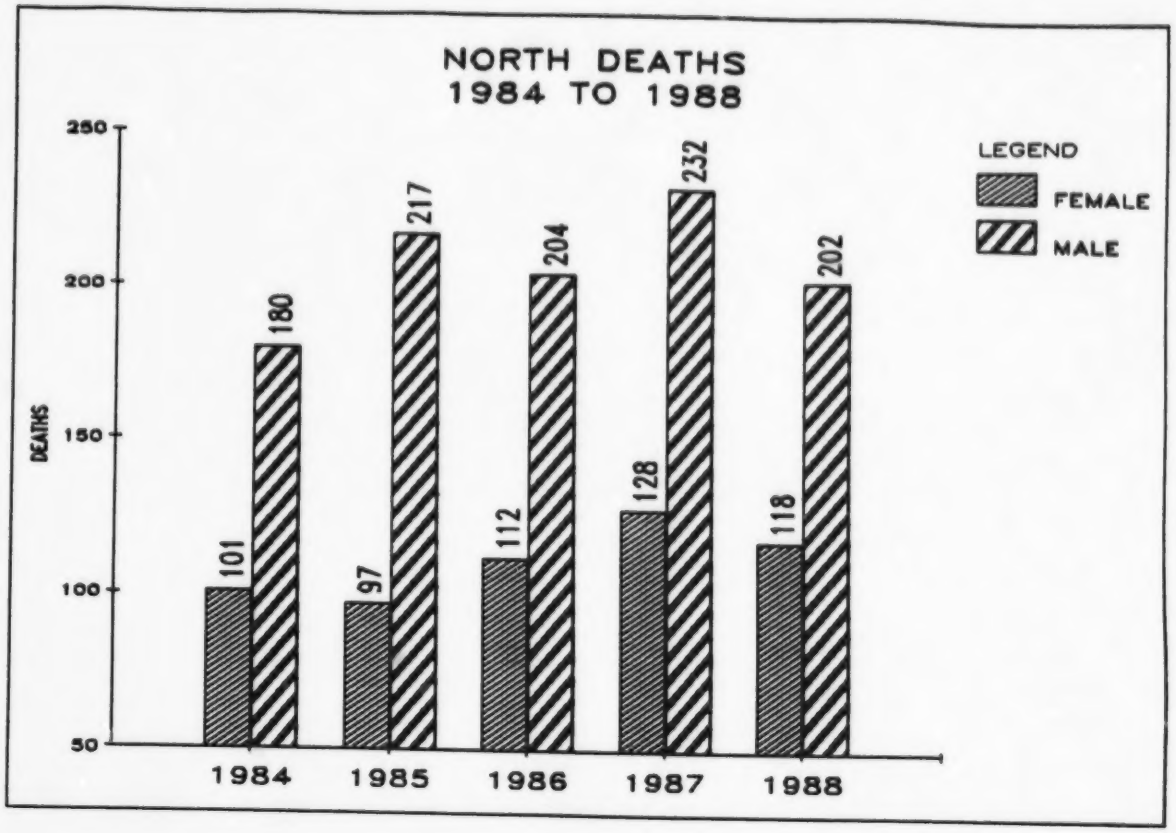
THE

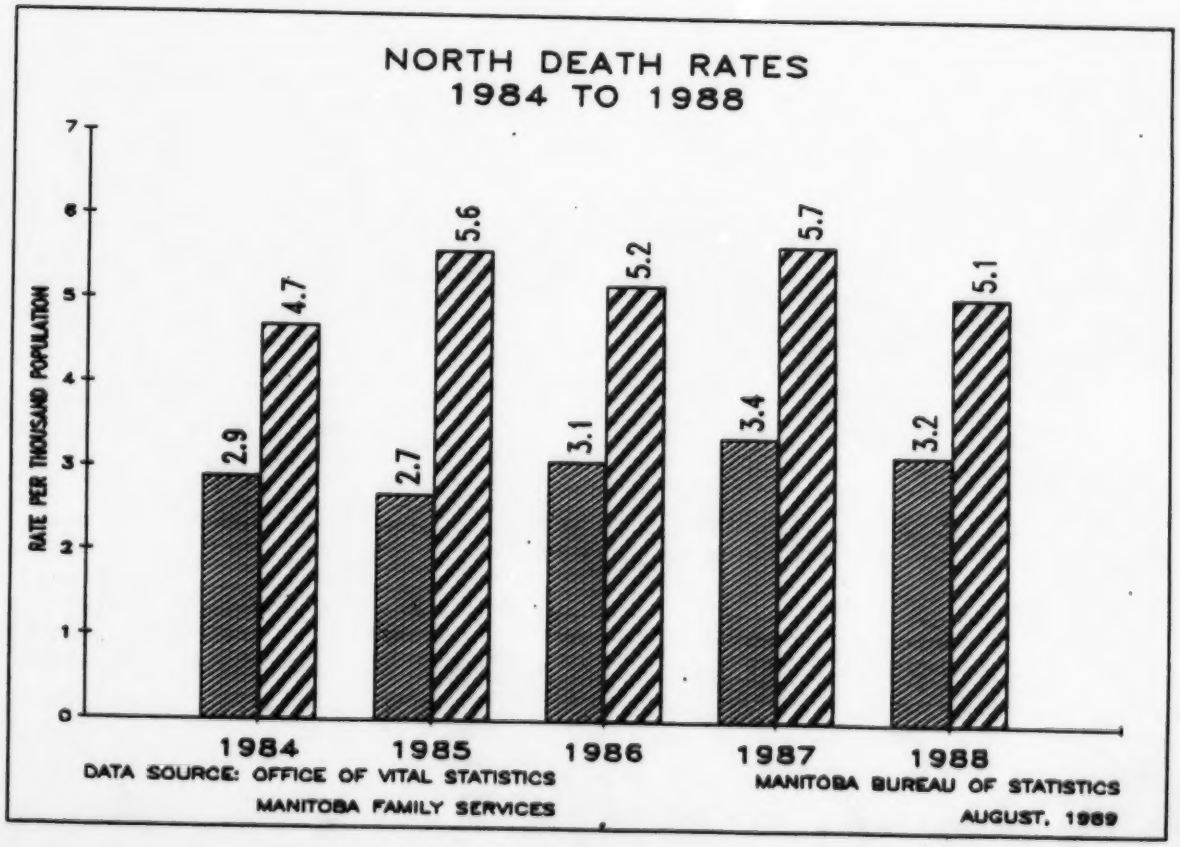
NORTH

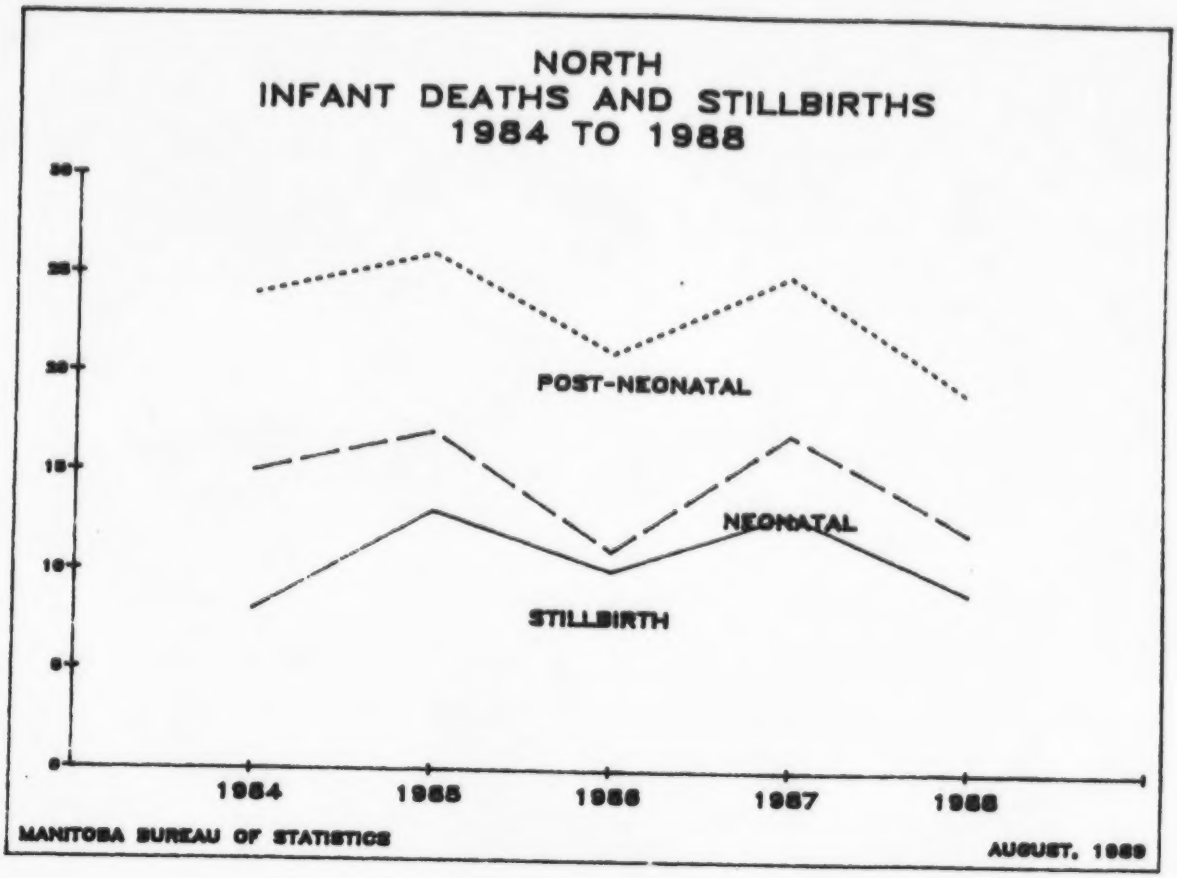
REGION


NORTH BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
900
800
700
600
500
400
735
710
726
786
706
724
681
767
603
676
1984
1985
1986
1987
1988


NORTH BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
22
20
18
16
14
12
20.8
18.5
20.5
20.4
19.4
18.4
17.9
18.9
16.1
17
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


NORTH DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
250
200
150
100
50
101
180
97
217
112
204
128
232
118
202
1984
1985
1986
1987
1988


NORTH DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
7
6
5
4
3
2
1
0
2.9
4.7
2.7
5.6
3.1
5.2
3.4
5.7
3.2
5.1
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989



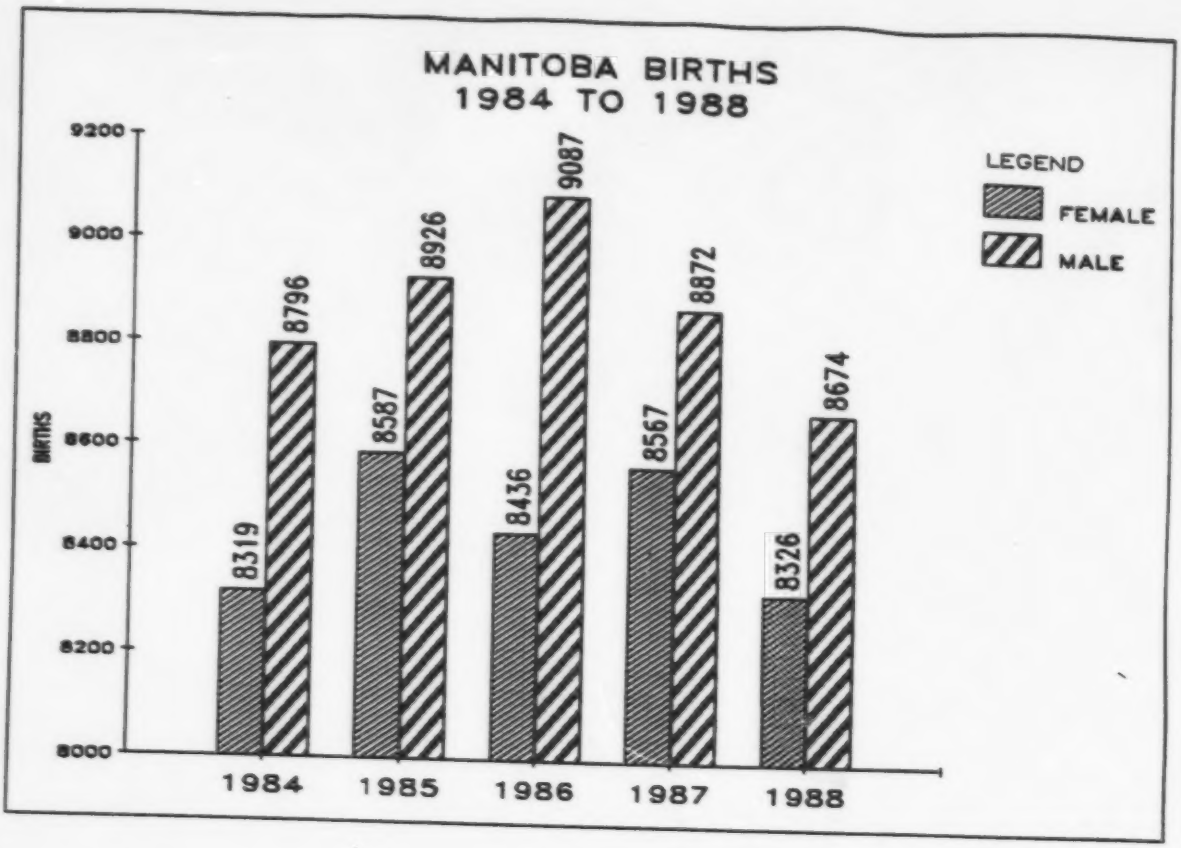
NORTH	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	7	9	16	8
1985	4	9	13	13
1986	1	11	12	10
1987	4	8	12	13
1988	3	7	10	9

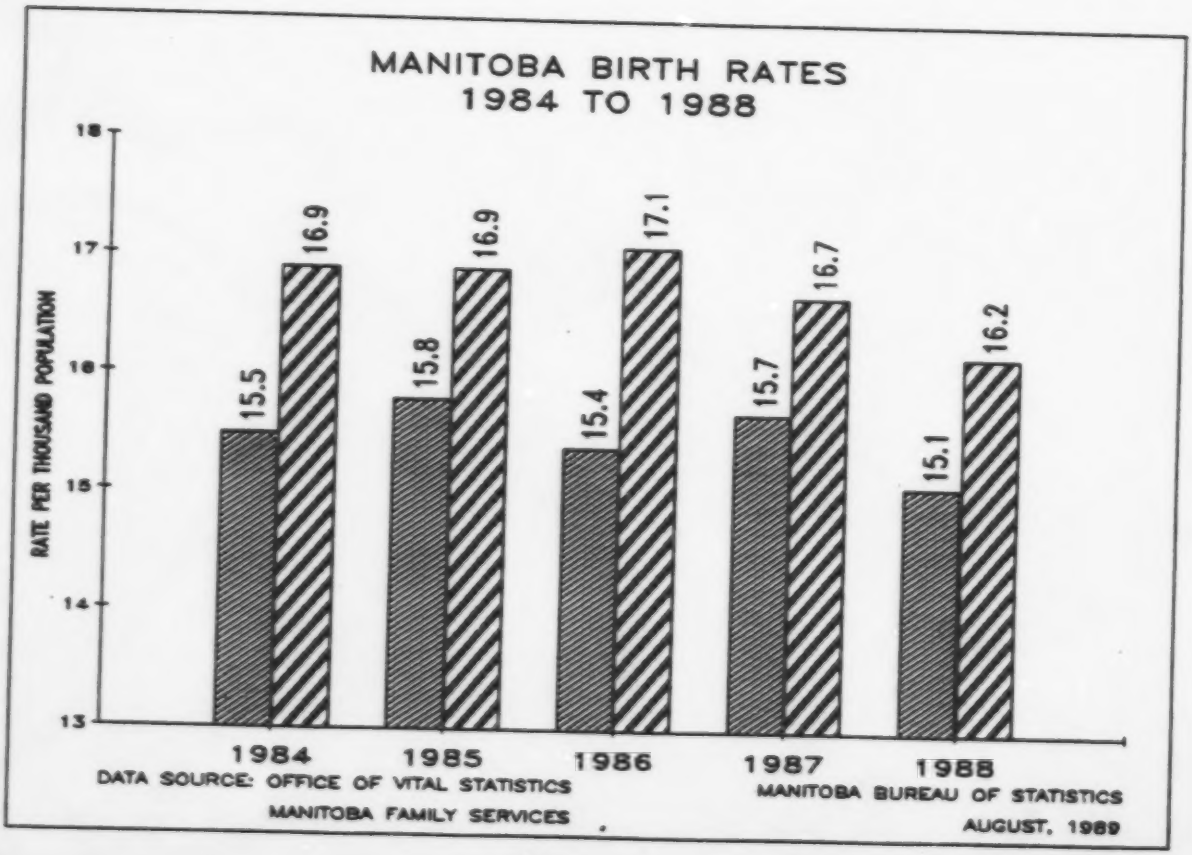
NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

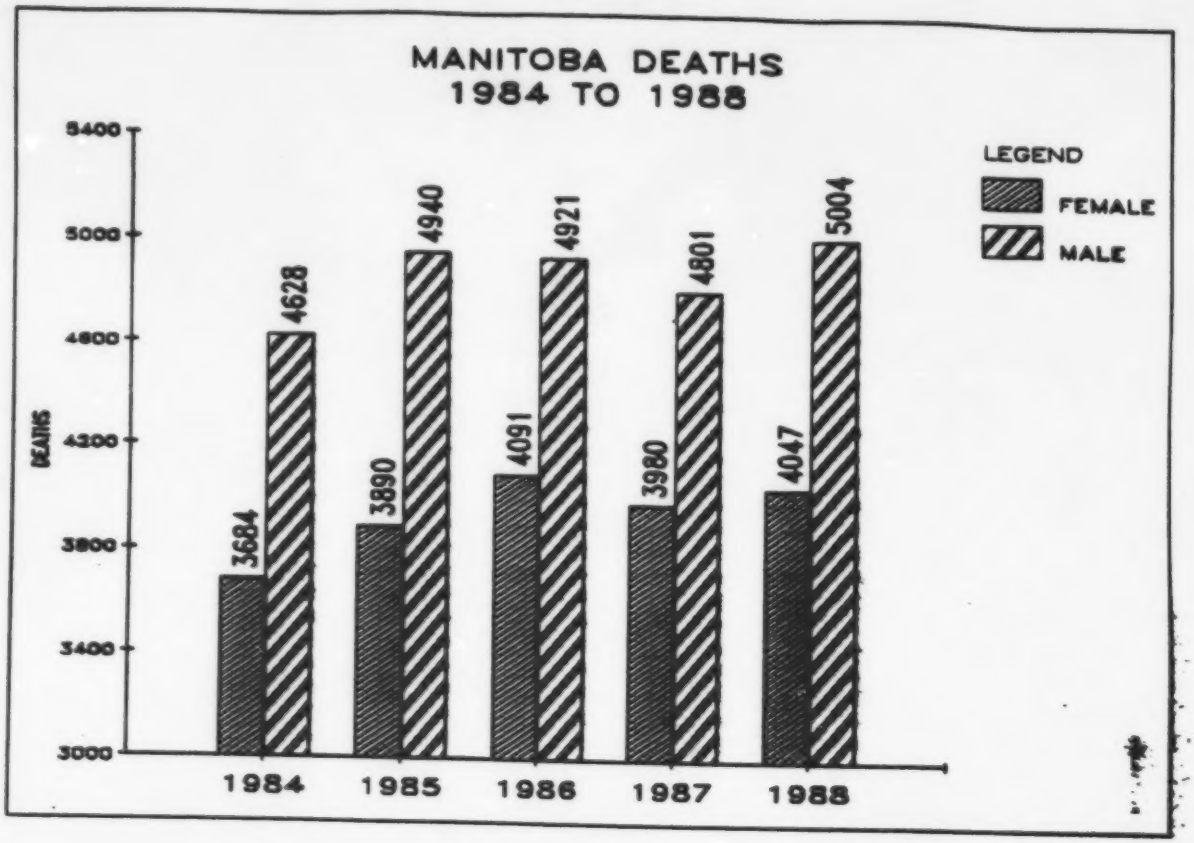
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

DATA SOURCE: Office of Vital Statistics, Manitoba Family Services

MANITOBA


MANITOBA BIRTHS
1984 TO 1988
LEGEND
FEMALE
MALE
BIRTHS
9200
9000
8800
8600
8400
8200
8000
8319
8796
8587
8926
8436
9087
8567
8872
8326
8674
1984
1985
1986
1987
1988


MANITOBA BIRTH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
18
17
16
15
14
13
15.5
16.9
15.8
16.9
15.4
17.1
15.7
16.7
15.1
16.2
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


MANITOBA DEATHS
1984 TO 1988
LEGEND
FEMALE
MALE
DEATHS
5400
5000
4800
4200
3800
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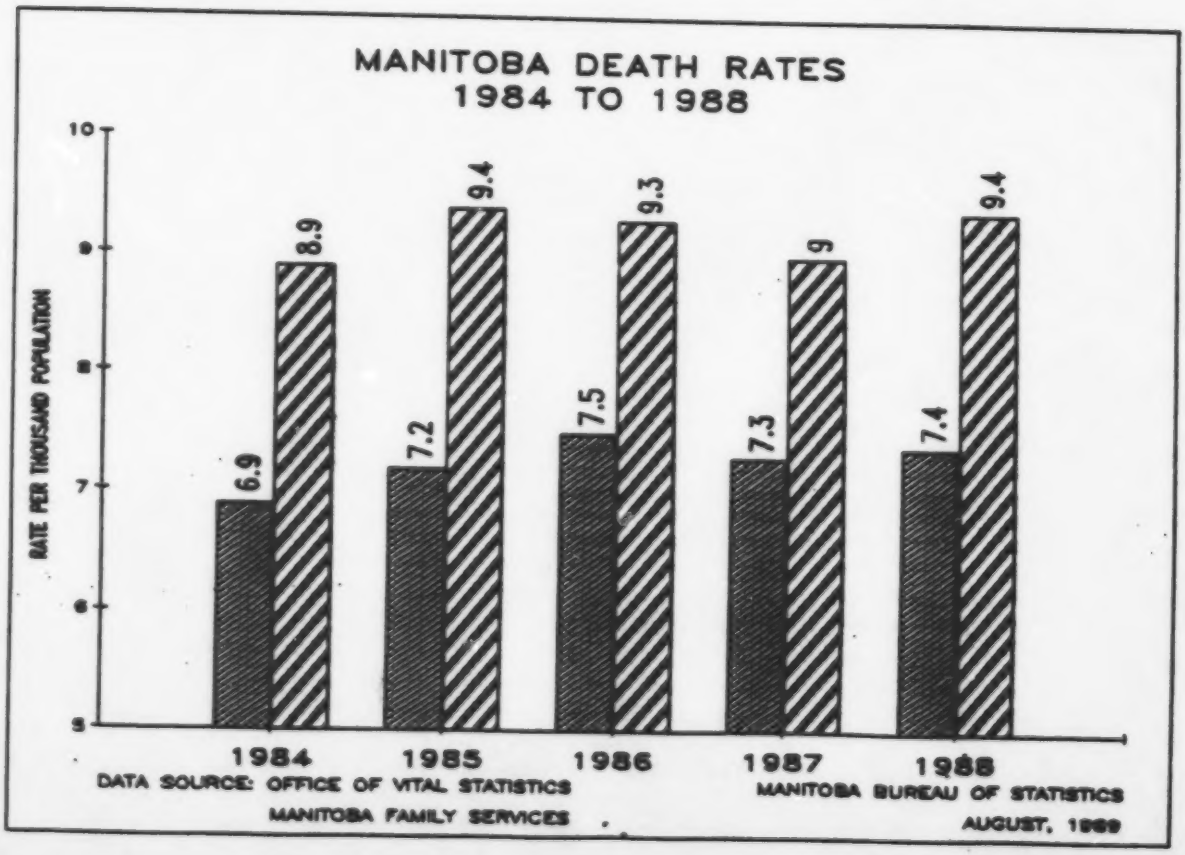
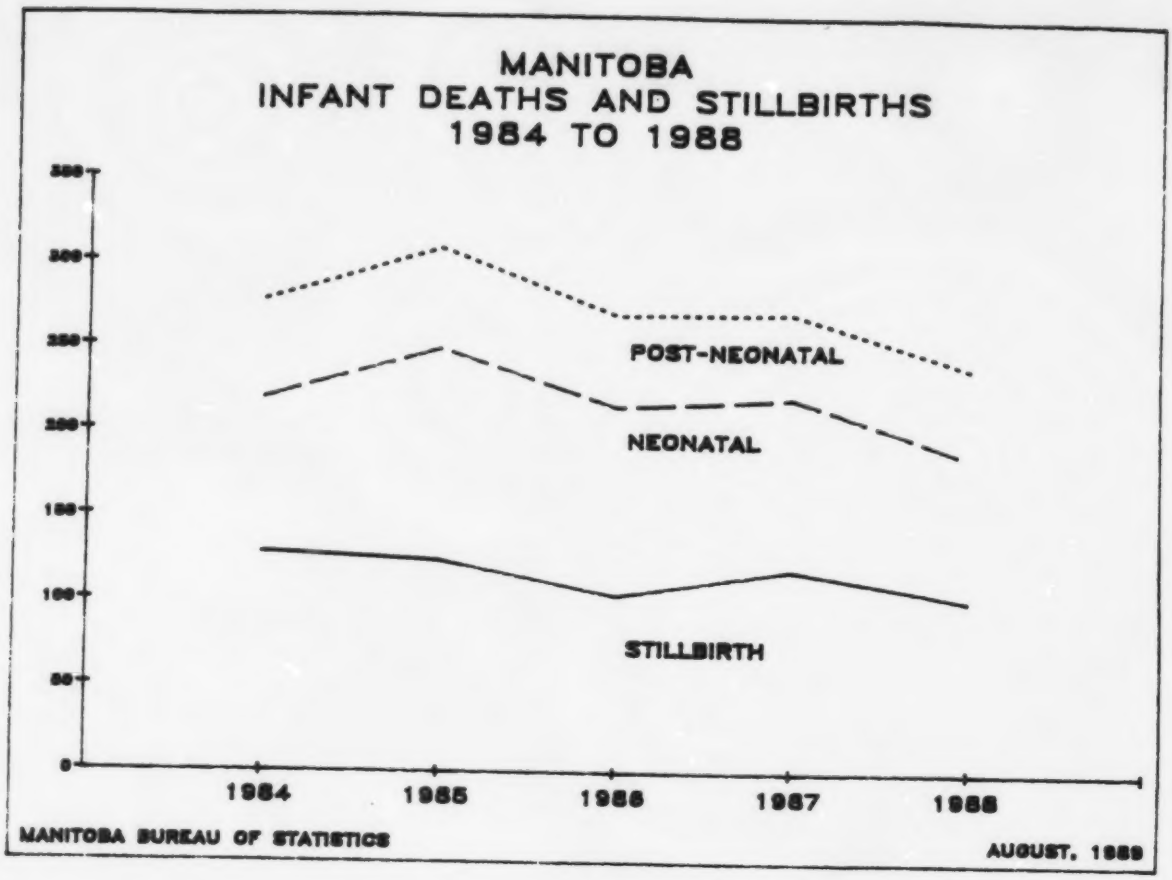
4801
4047
5004
1984
1985
1986
1987
1988


MANITOBA DEATH RATES
1984 TO 1988
RATE PER THOUSAND POPULATION
10
9
8
7
6
5
6.9
8.9
7.2
9.4
7.5
9.3
7.3
9
7.4
9.4
1984
1985
1986
1987
1988
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989

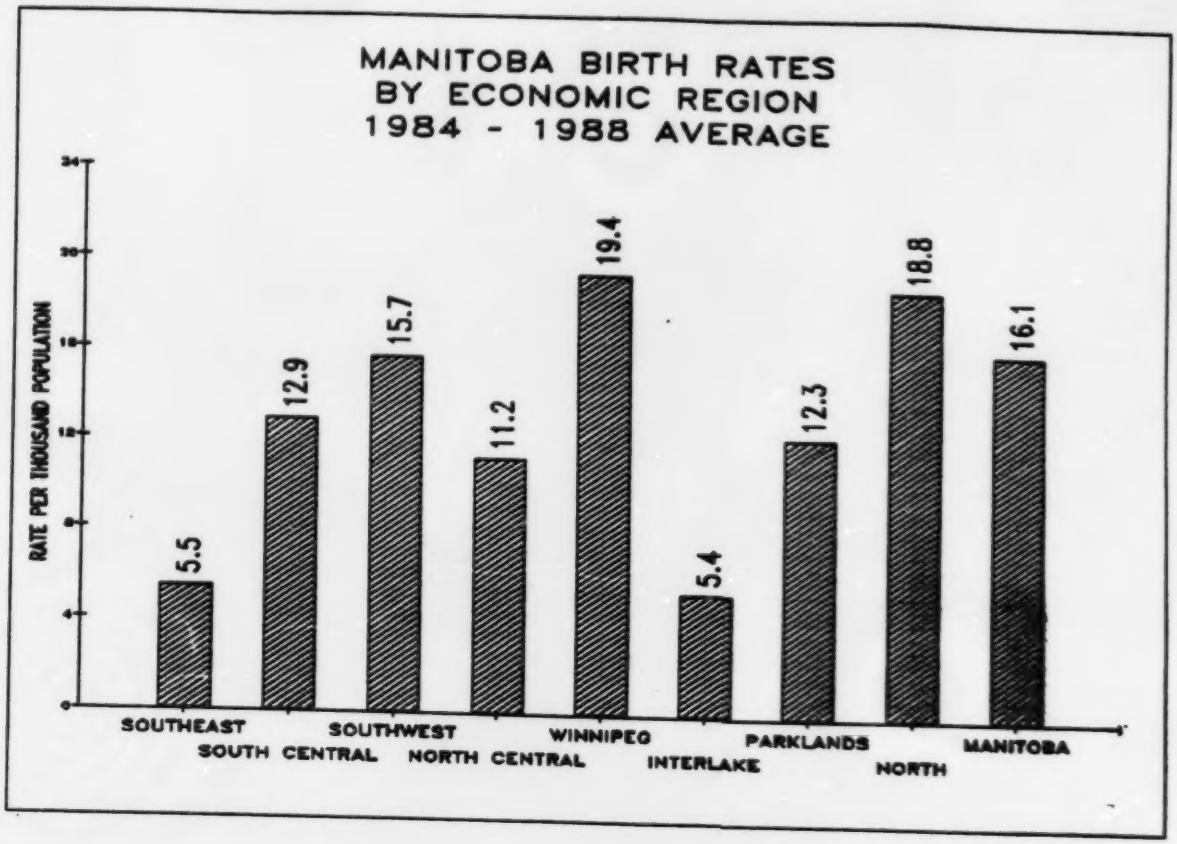


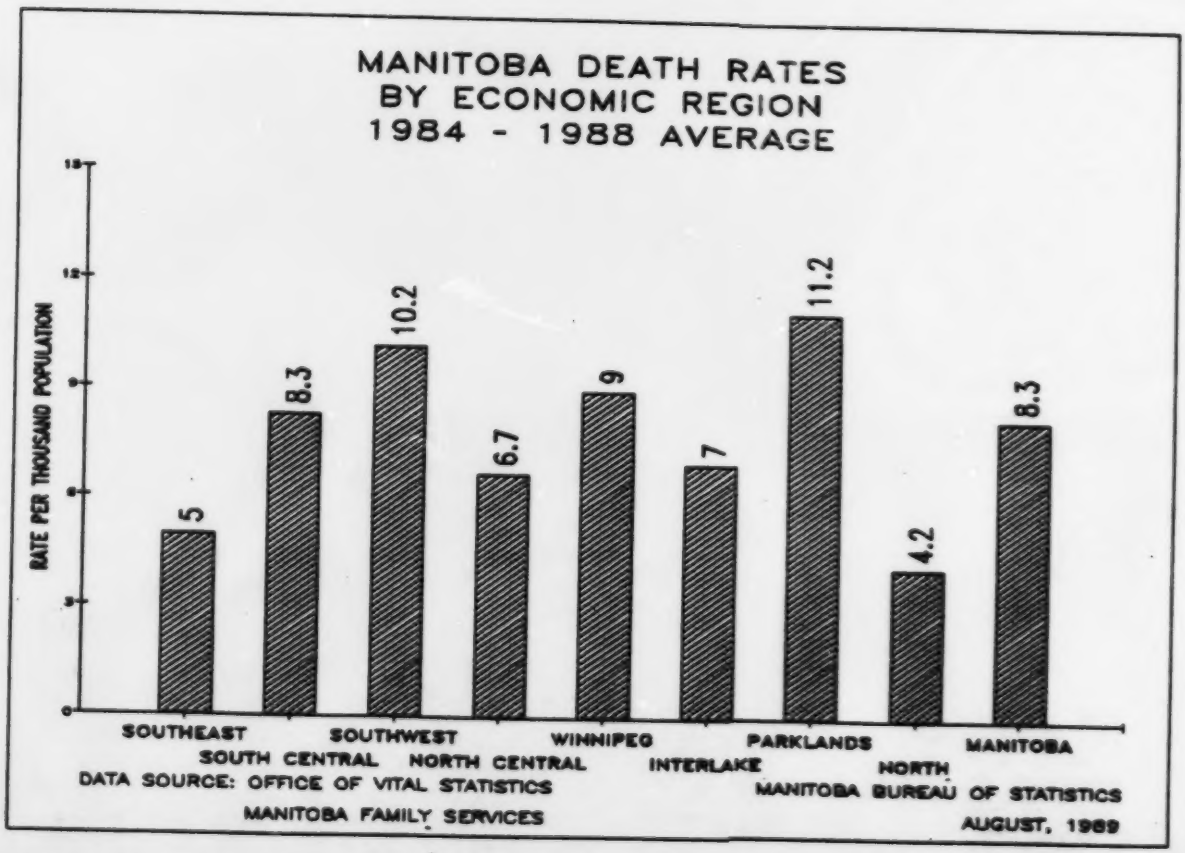
MANITOBA	INFANT DEATHS			STILLBIRTHS
	Neonatal	Post-neonatal	Total	
1984	91	58	149	128
1985	125	59	184	123
1986	111	54	165	103
1987	101	49	150	119
1988	84	52	136	101

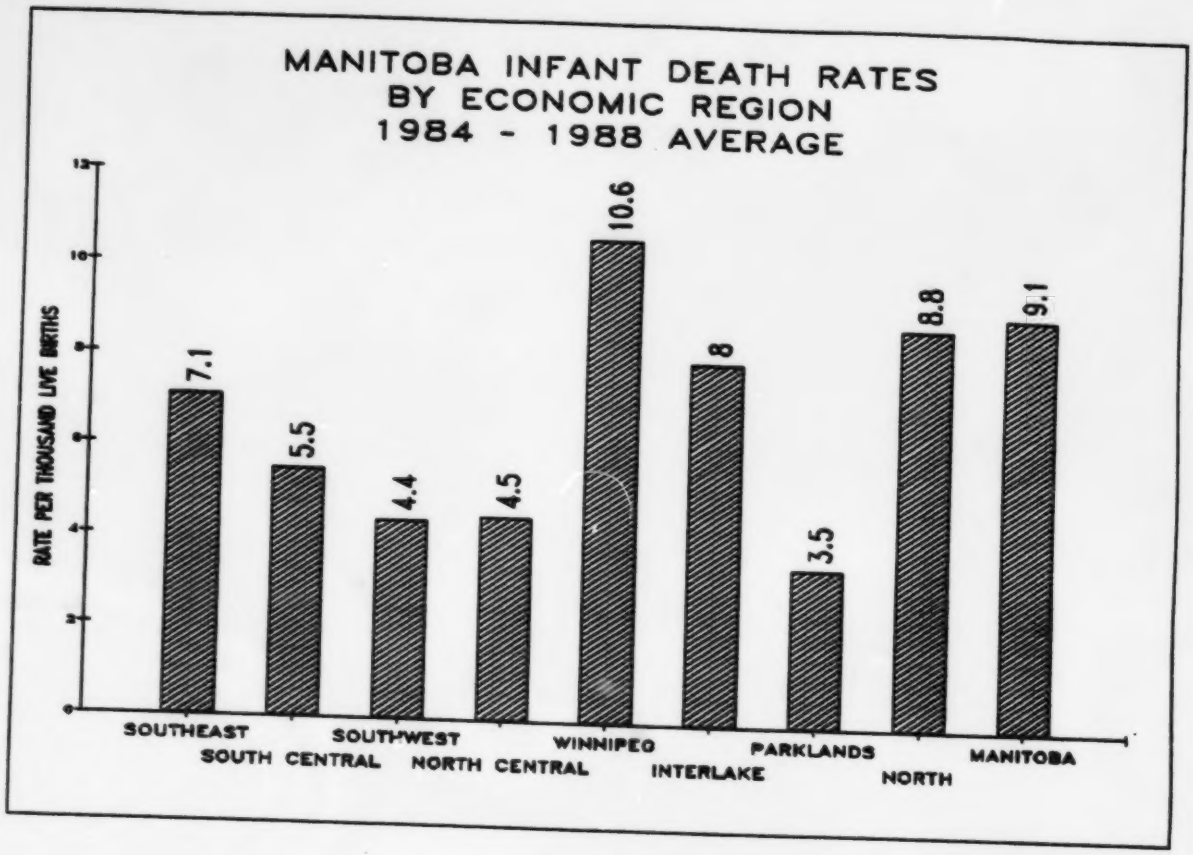
NOTE: Infant deaths consist of neonatal (age less than 28 days) and post-neonatal (from 28 days to 1 year of age).

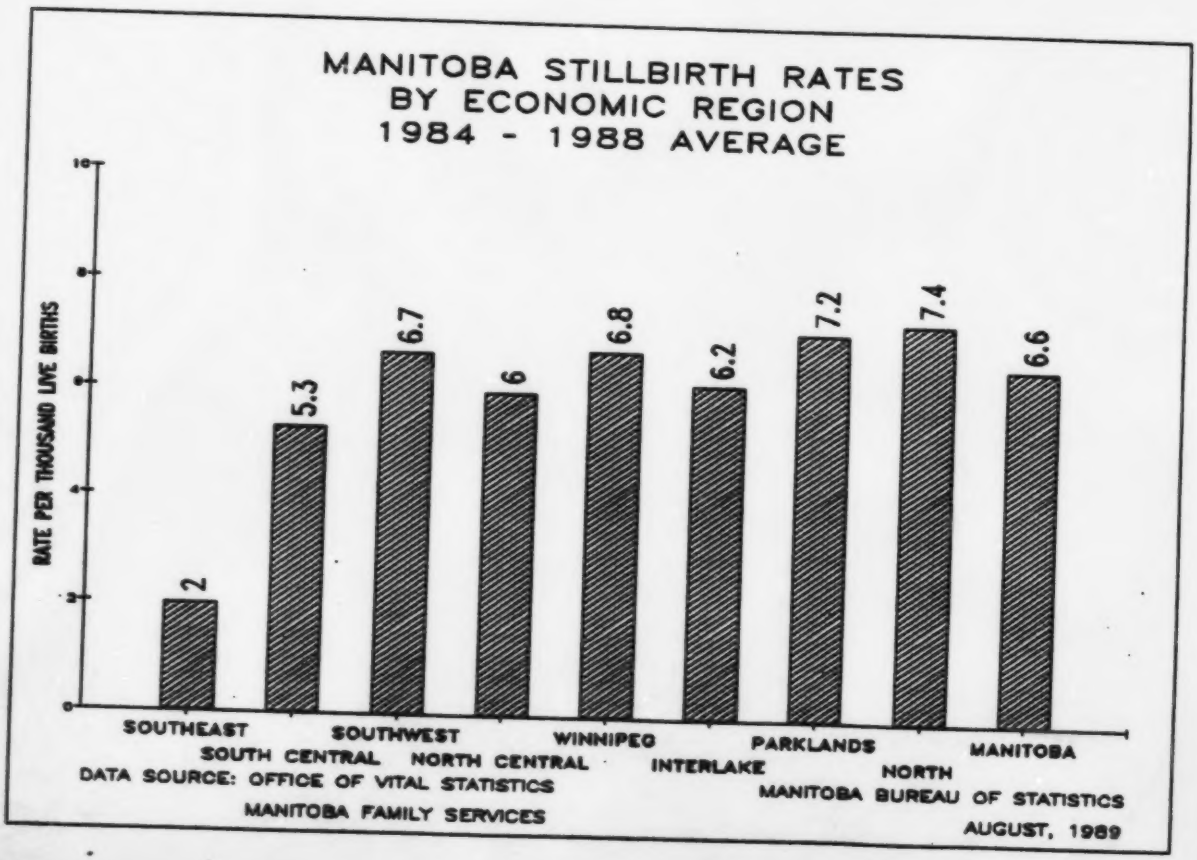
The area under the Stillbirth line represents the number of stillbirths while the area between the Neonatal and Stillbirth lines represents the number of neonatal infant deaths. The area between the Post-Neonatal and Neonatal lines represents the number of post-neonatal infant deaths.

DATA SOURCE: Office of Vital Statistics, Manitoba Family Services


MANITOBA BIRTH RATES
BY ECONOMIC REGION
1984 - 1988 AVERAGE
RATE PER THOUSAND POPULATION
5.5
12.9
15.7
11.2
19.4
5.4
12.3
18.8
16.1
SOUTHEAST
SOUTH CENTRAL
SOUTHWEST
NORTH CENTRAL
WINNIPEG
INTERLAKE
PARKLANDS
NORTH
MANITOBA


MANITOBA DEATH RATES
BY ECONOMIC REGION
1984 - 1988 AVERAGE
RATE PER THOUSAND POPULATION
5
8.3
10.2
6.7
9
7
11.2
4.2
8.3
SOUTHEAST
SOUTH CENTRAL
SOUTHWEST
NORTH CENTRAL
WINNIPEG
INTERLAKE
PARKLANDS
NORTH
MANITOBA
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989


MANITOBA INFANT DEATH RATES
BY ECONOMIC REGION
1984 - 1988 AVERAGE
RATE PER THOUSAND LIVE BIRTHS
7.1
5.5
4.4
4.5
10.6
8
3.5
8.8
9.1
SOUTHEAST
SOUTH CENTRAL
SOUTHWEST
NORTH CENTRAL
WINNIPEG
INTERLAKE
PARKLANDS
NORTH
MANITOBA


MANITOBA STILLBIRTH RATES
BY ECONOMIC REGION
1984 - 1988 AVERAGE
RATE PER THOUSAND LIVE BIRTHS
2
5.3
6.7
6
6.8
6.2
7.2
7.4
6.6
SOUTHEAST
SOUTH CENTRAL
SOUTHWEST
NORTH CENTRAL
WINNIPEG
INTERLAKE
PARKLANDS
NORTH
MANITOBA
DATA SOURCE: OFFICE OF VITAL STATISTICS
MANITOBA FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS
AUGUST, 1989